

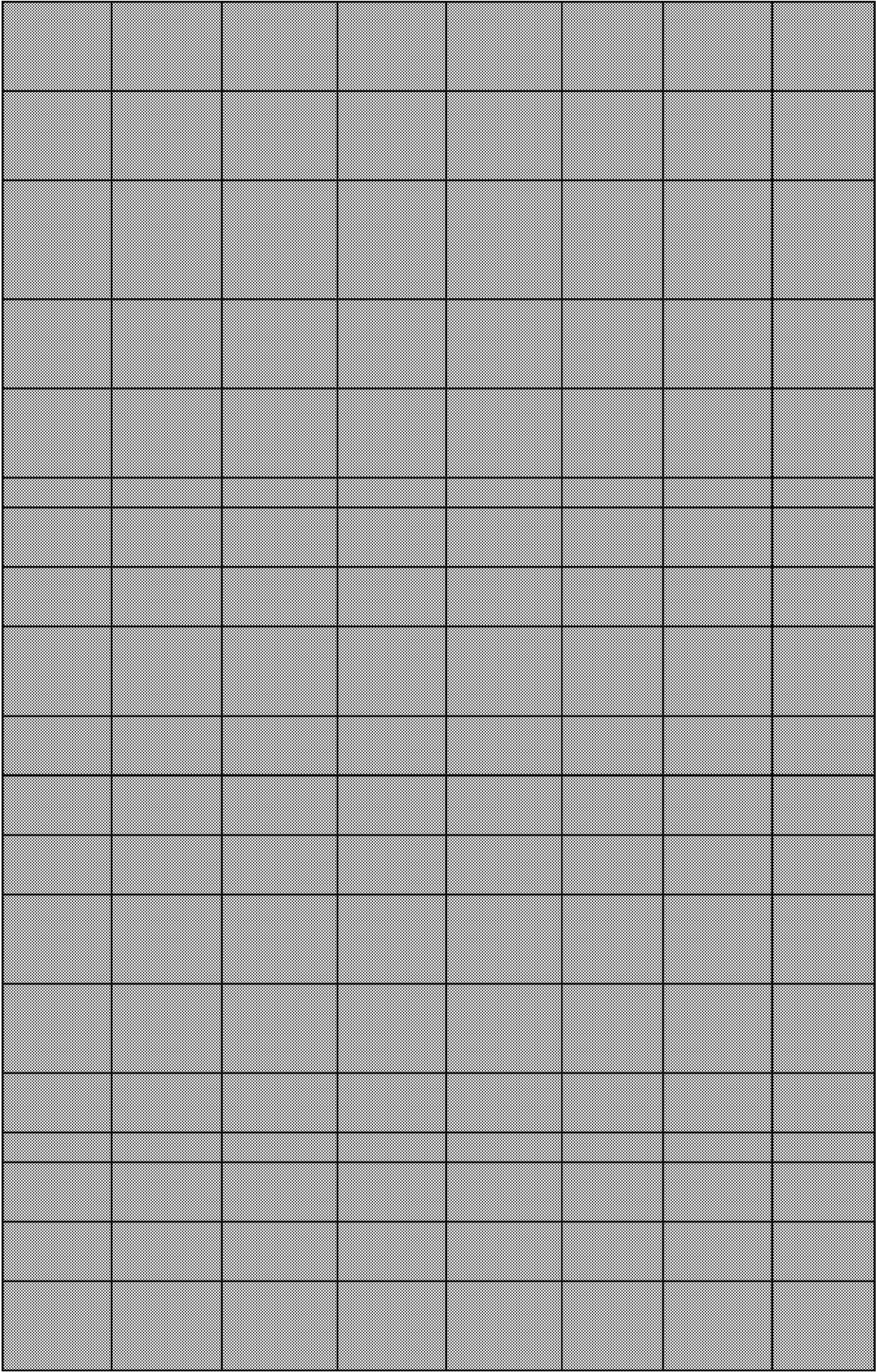
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The presence of the widely used selectable antibiotic marker, tetA(C), unexpectedly increased the sensitivity of Pseudomonas
A novel herbicide biosensor with a thylakoid modified membrane electrode is presented. Thylakoid, isolated from spinach
The aim of this study is to investigate the effects of molecular hydrogen (H ₂) and suberoylanilide hydroxamic acid (SAHA)
The Nrf2 transcription factor is well conserved throughout metazoan evolution and serves as a central regulator of adaptive
Reactive oxygen species (ROS)-related mitochondrial dysfunction is considered to play a vital role in seed deterioration. In
Paraquat, alachlor, butachlor, phorate and monocrotophos, several of the most extensively used pesticides in Taiwan, were
In traditional Chinese medicinal practices, herbs are classified as 'cold', 'neutral', or 'hot'. Fluorometric analysis of herbs was
BACKGROUND: The aging process, including physical dysfunction and age-related memory impairment (AMI), are considered
We investigated direct histamine release and its effects in edema formation following paraquat (PQ) injury in a blood-free
Vanadate (V(V)) stimulates the oxidation of NADH by xanthine oxidase and superoxide dismutase eliminates the effect of
Lucigenin (bis-N-methylacridinium) (Luc2+) has frequently been used for the luminescent detection of O ₂ ⁻ . In fact, the pa
Once thought only as storage for excess nutrients, adipose tissue has been shown to be a dynamic organ implicated in the
Cysteine catabolism presents cells with a double-edged sword. On the one hand, cysteine degradation provides cells with
The effects of acutely administered ethanol on absorption, accumulation and biotransformation of several model compounds
The authors review the mechanisms of paraquat and diquat toxicity. They discuss the generation of multiple toxic active
A patient with chronic Parathion (E 605) poisoning was observed over a period of 55 days. During that time he developed
An injection port pyrolysis method for the analysis of quaternary ammonium compounds is reported. Identification and
Oxidative stress is unavoidable for aerobic organisms. When abiotic and biotic stresses are encountered, oxidative damage

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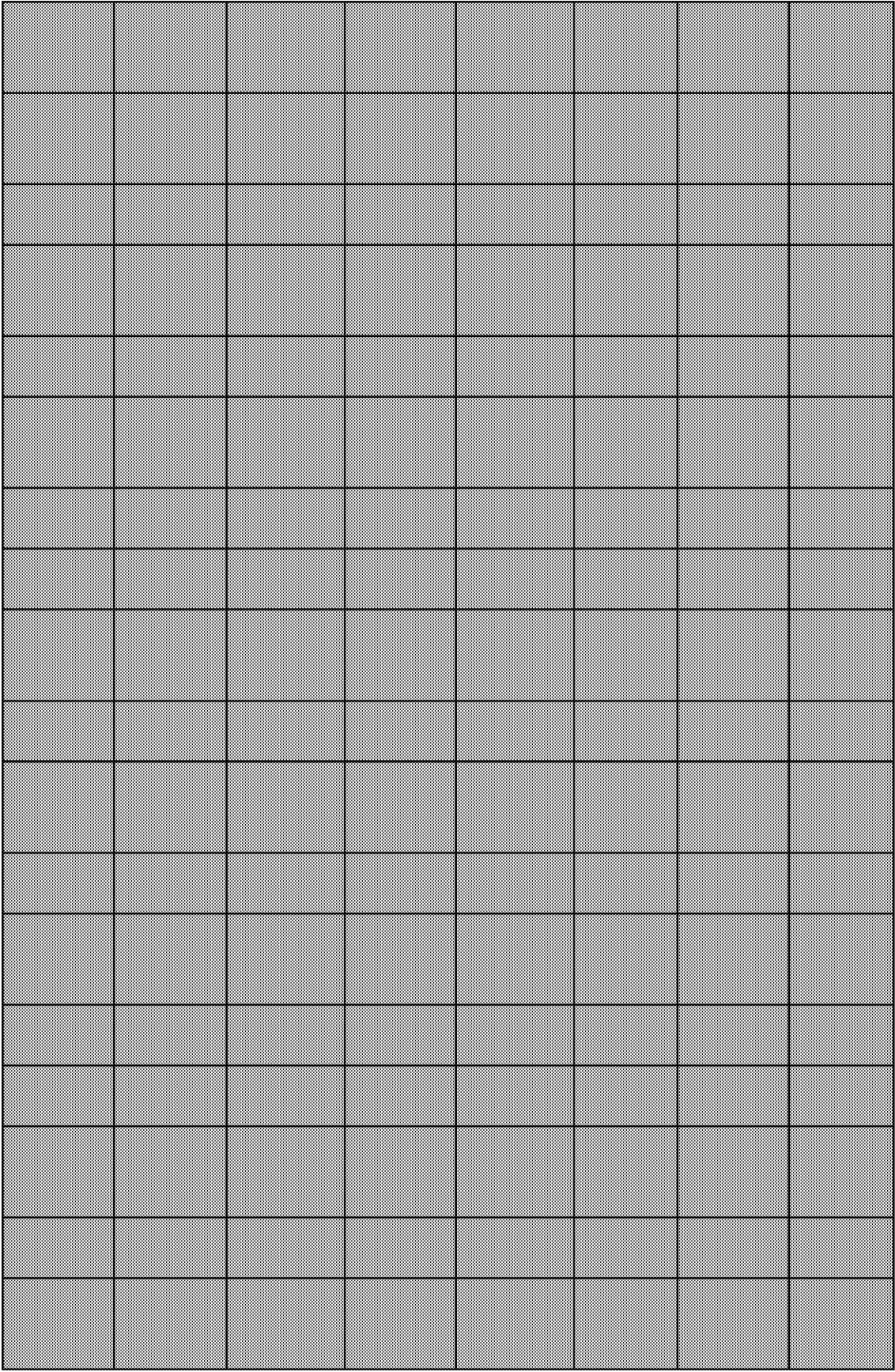
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Anthocyanidin reductase (ANR) is a key enzyme involved in the biosynthesis of proanthocyanidins (PAs) and plays a role in
NAC (NAM-ATAF1, 2-CUC2) family members play important roles in various environmental responses. Here, we cloned a
A primary culture of baboon proximal tubule cells (bPTC) was prepared and characterised using LLC-PK1 cells of proximal
Melatonin is synthesized by several tissues besides the pineal gland, and beyond its regulatory effects in light-dark cycle,
Under increased oxygen tensions, <i>Thermus aquaticus</i> exhibited a lag period in growth of 80 min, during which the specific
A hydrogenase linked to the carbon monoxide oxidation pathway in <i>Rubrivivax gelatinosus</i> displays tolerance to O ₂ . When
Photosensitive dyes representative of the thiazines, xanthenes, acridines, and phenazines mediated phototoxicity in <i>Esch</i>
The role of transition metals in paraquat toxicity was studied in cultures of <i>Plasmodium falciparum</i> . We showed that add
A wide variety of aromatic compounds are enzymatically reduced to form anion free radicals that generally contain one r
A study was made of the peroxide metabolism enzymes in carp fish, and of the effects on these of three different concen
Oxygen is essential for aerobic organisms but causes cytotoxicity probably through the generation of reactive oxygen spe
Superoxide radicals (O ₂ ⁻) are commonplace products of the biological reduction of oxygen. Their intrinsic reactivity and a
INTRODUCTION: This paper describes a novel technique, Fluorosomes, applied to investigating the interaction of antimic
Aging is tightly associated with redox events. The free radical theory of aging indicates that redox imbalance may be an i
These results demonstrate that two well-studied metalloenzymes, carbon monoxide dehydrogenase/acetyl-CoA synthas

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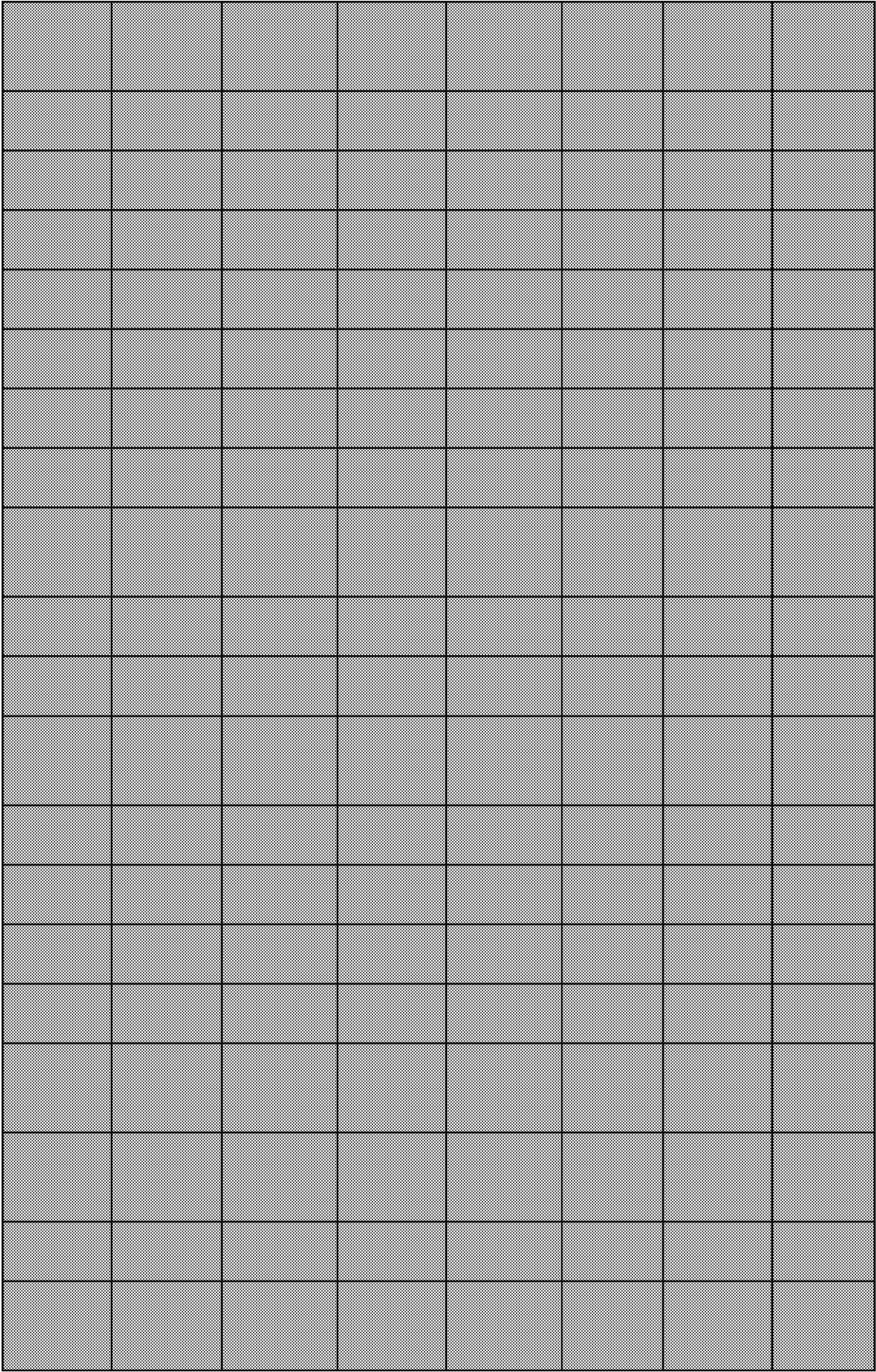
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Multiple antibiotic resistance in Escherichia coli has typically been associated with mutations at the mar locus, located at
The molecular mechanism (or mechanisms) at the basis of paraquat (PQ) (a widely used herbicide) toxicity is far from be
Paraquat, which mediates increased O ₂ ⁻ production within Escherichia coli, inhibits growth without causing cell death in
Evidence for the reversible binding of paraquat to calf thymus DNA has been obtained using equilibrium dialysis and ther
Since there exists some controversy in the literature as to whether paraquat augments microsomal lipid peroxidation via
The effects of trichlorfon (DEP, Dipterex, anticholinesterase pesticide) and paraquat dichloride (Gramoxon, inhibitor of su
The authors compared the temporal pattern of low-dose oxidant-induced lung injury in rats after exposure to either 1 pp
Iron, particularly in the ferrous state plays a role in regulating the biosynthesis of the manganese superoxide dismutase (
Data of toxicological analyses carried out over a 10-y period for suspected cases of wild and domestic animal poisonings
The potential genotoxicity (nuclear anomalies, damage to single-strand DNA) and pinocytic adherence activity of two (gly
Supplements of antioxidants, superoxide dismutase (SOD), catalase, cyclic guanylate (cGMP), and theophylline, or omissi
Novel metal complexes, Fe(II)-tetrakis-N,N,N',N' (2-pyridylmethyl)ethylenediamine(Fe-TPEN) and Fe(III)-tris[N-(2-pyridyl
Novel iron and copper complexes having tris[N-(5-methyl-2-pyridylmethyl)-2-aminoethyl]amine (5MeT-PAA), tris[N-(3-m
The mechanism of absorption of paraquat, which is a type of quaternary ammonium compound (QAC), was studied using
BACKGROUND: As an intracellular human pathogen, Mycobacterium tuberculosis (Mtb) is facing multiple stressful stimul
Parkinson's disease (PD) affects millions around the world. The Braak hypothesis proposes that in PD a pathologic agent r
In vitro complementation of the soluble assimilatory nicotinamide adenine dinucleotide phosphate, reduced form (NADP

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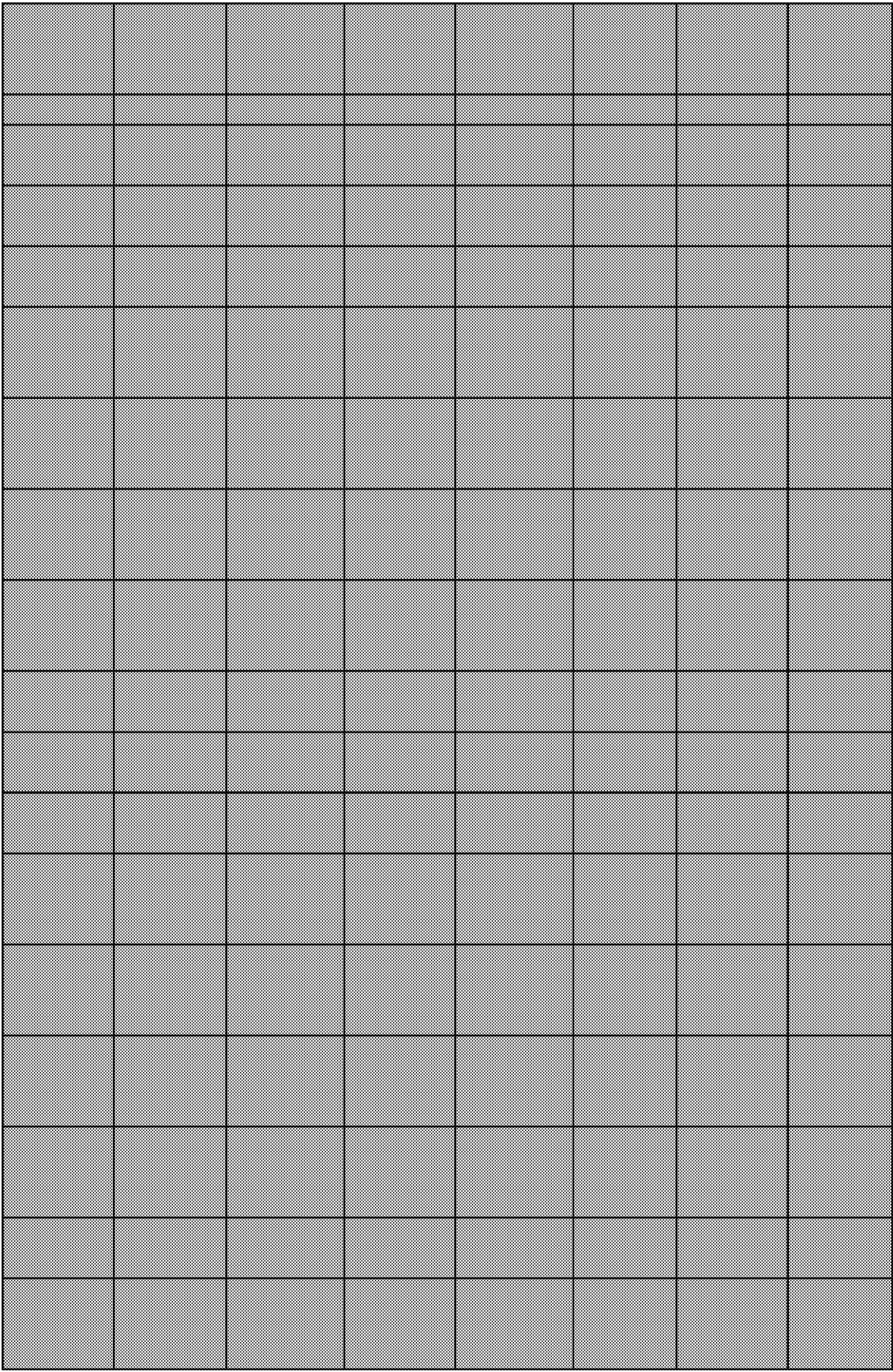
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An <i>Escherichia coli</i> double mutant, <i>sodA</i> <i>sodB</i> , that is deficient in both bacterial superoxide dismutases (Mn superoxide dismutase and Fe superoxide dismutase)
Cell extracts of acetate-grown <i>Methanosarcina</i> strain TM-1 and <i>Methanosarcina acetivorans</i> both contained CH ₃ -S-CoM
The clinical applications of plasmapheresis are rapidly increasing in number and scope. This trend is also observed in the
To measure the toxicity experienced by superoxide-generating compounds, two plasmids were constructed in which the
In <i>Escherichia coli</i> , the superoxide dismutase genes (<i>sodA</i> and <i>sodB</i>) sense the availability of Fe through the action of the
To improve the in vivo pharmacological potential of Cu, Zn-superoxide dismutase (Cu,Zn-SOD), human recombinant Cu,Zn-
The effects of medicinal margarite extract and recombinant human superoxide dismutase (r-h SOD) on acute paraquat in
We cloned a gene responsible for multidrug resistance from the chromosomal DNA of <i>Klebsiella pneumoniae</i> MGH78578
From the clinico-toxicological standpoint, the most important plant protectants are the insecticides (bipyridylum compo
The indication to use hemoperfusion as a therapeutic measure in severe intoxications in man should be based on a three
An economical hemoperfusion system for clearance studies in vitro was developed. It was ascertained, that hemoperfu
In the presence of double helical polynucleotides (sodium poly(dA-dT).poly(dA-dT) or calf thymus DNA), the efficiency of
Autosomal recessive Juvenile Parkinsonism (AR-JP) is a chronic, progressive neurodegenerative disorder caused by muta
Developmental effects of amitraz (acaricide), its metabolite (2,4-dimethylaniline), and paraquat (herbicide) on embryos of

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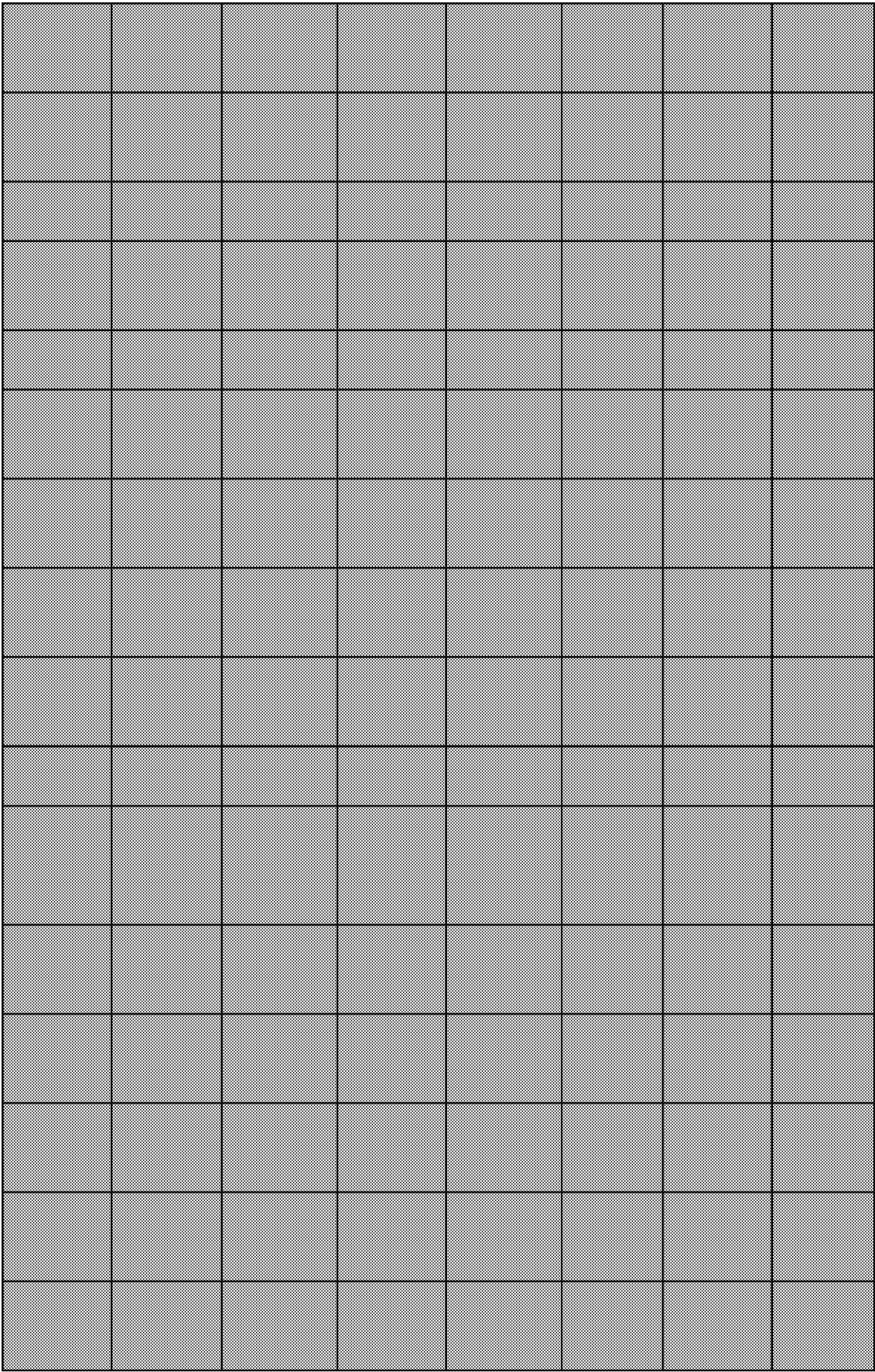
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Intravenous injections of the quaternary dipyridium salt paraquat (^{14}C -labelled) dissolved in solutions of low tonicity res
Vascular endothelial growth factor-D (VEGF-D) is an angiogenic and lymphangiogenic glycoprotein that facilitates tumour
Lung injury is the main cause of death in acute paraquat (PQ) intoxication. Sivelestat (SV), a neutrophil elastase inhibitor,
The tricarboxylic acid cycle enzyme fumarase catalyzes the interconversion of fumarate to L-malate. <i>Escherichia coli</i> cont
We have studied the effect of free radical generating agents on the mono-(ADP)-ribosylation of rat liver cytosolic protein
Glyphosate containing herbicides are an alternative to paraquat and are widely used throughout the world. Despite anim
Environmental insults such as oxidative stress can damage cell membranes. Lysosomes are particularly sensitive to mem
Herbicide soil/solution distribution coefficients ($K(d)$) are used in mathematical models to predict the movement of herb
Activation of the plant defensin gene PDF1.2 in <i>Arabidopsis</i> by pathogens has been shown previously to be blocked in the
Substantial differences in the in vivo effect of paraquat (Pq) and DTT on basic peroxidase (GBPx) activity and on H_2O_2 lev
NME1 (nonmetastatic expressed 1) gene, which encodes nucleoside diphosphate kinase (NDPK) A [also known as nonme
The role of copper/zinc-containing superoxide dismutase (cSOD; superoxide:superoxide oxidoreductase, EC 1.15.1.1) in r
Paraquat (Pq) is a herbicide which is very toxic to all animals and to man. It generates free radicals and leads to acute or c
Factors that affect the direction of root growth in response to environmental signals influence crop productivity. We ana
Bromodeoxyuridine/Hoechst flow cytometry was used to analyse the interference of common cytostatic agents with cell
<i>Escherichia coli</i> growing anaerobically respond to NO_3^- with a 3-fold induction of the iron-containing superoxide dismuta

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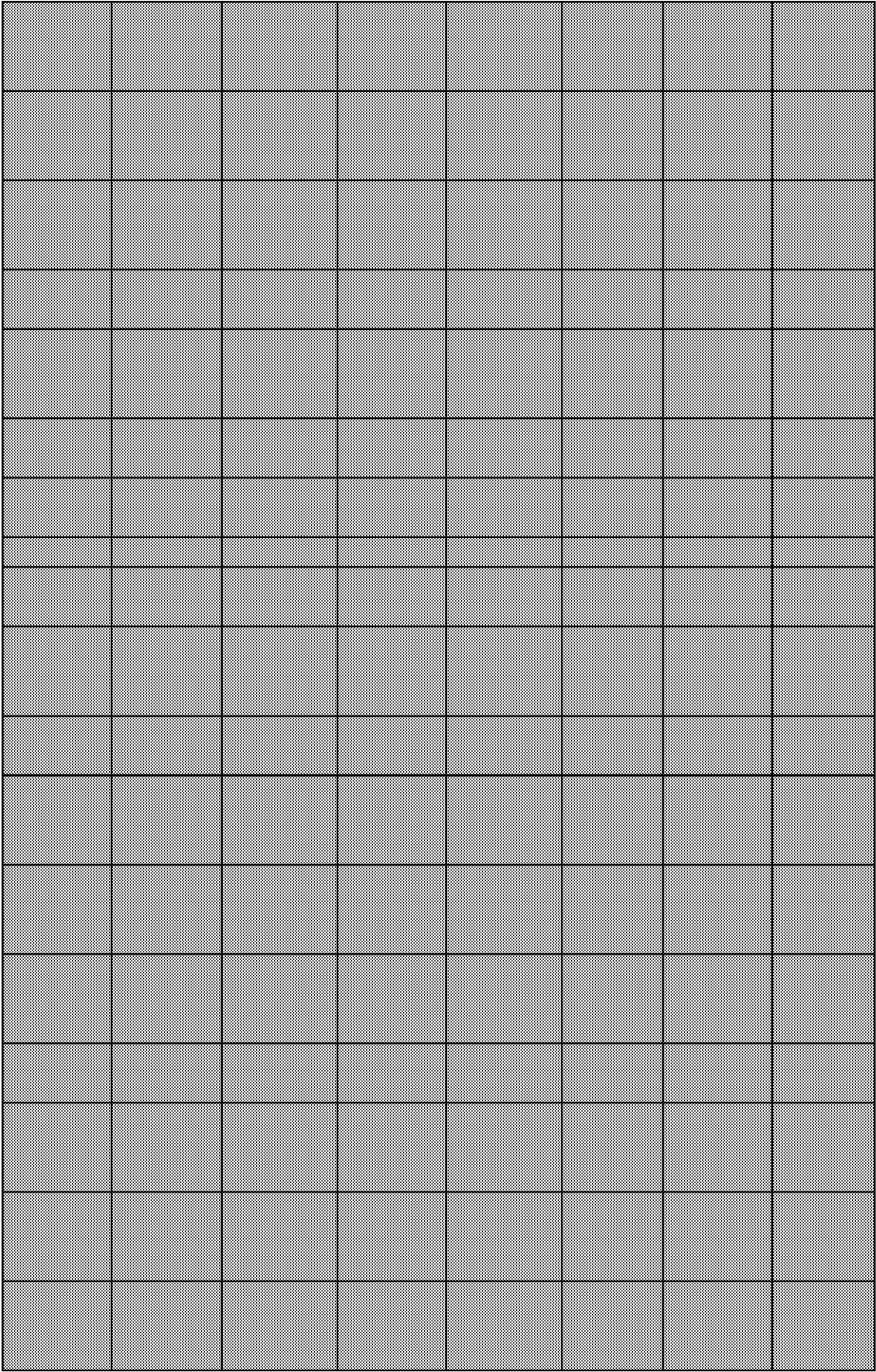
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Anaerobically grown <i>Escherichia coli</i> contain an enzymatically active iron superoxide dismutase (Fe ²⁺ -FeSOD) and an inactive
The modulation of longevity genes and aging-associated signaling pathways using pharmacological agents is one of the promising
Abiotic stresses limit crop growth and productivity worldwide. Cellular tolerance, an important abiotic stress adaptive trait
Environmental stress conditions such as high light, extreme temperatures, salinity or drought trigger oxidative stress and
A hydrogen gas (H ₂) biosensor was developed in which hydrogenase (H ₂ ase) was immobilized and sandwiched between
Dramatic declines in amphibian populations have been described all over the world since the 1980s. The evidence that the
Soil thin-layer chromatography with water or water-methanol as solvents allows observation and measurement of the metabolites
We previously reported that dimethylarsinic acid (DMAA), a major metabolite of inorganic arsenics, induced DNA single-strand
The flavin analogue 5-deazariboflavin is a convenient catalyst for the photoreduction of low-potential redox compounds.
1. Spin-trapping techniques have been used to examine the metabolism of three xenobiotics known to produce free radicals
Multidrug transporters recognize and transport substrates with apparently little common structural features. At times the
An antioxidant fraction of Chinese green tea (green tea antioxidant; GTA), containing several catechins, has been previously
Inhalation of airborne toxicants such as cigarette smoke and ozone is a shared health risk among the world's populations
The repair of PSII under strong light is particularly sensitive to reactive oxygen species (ROS), such as the superoxide radical

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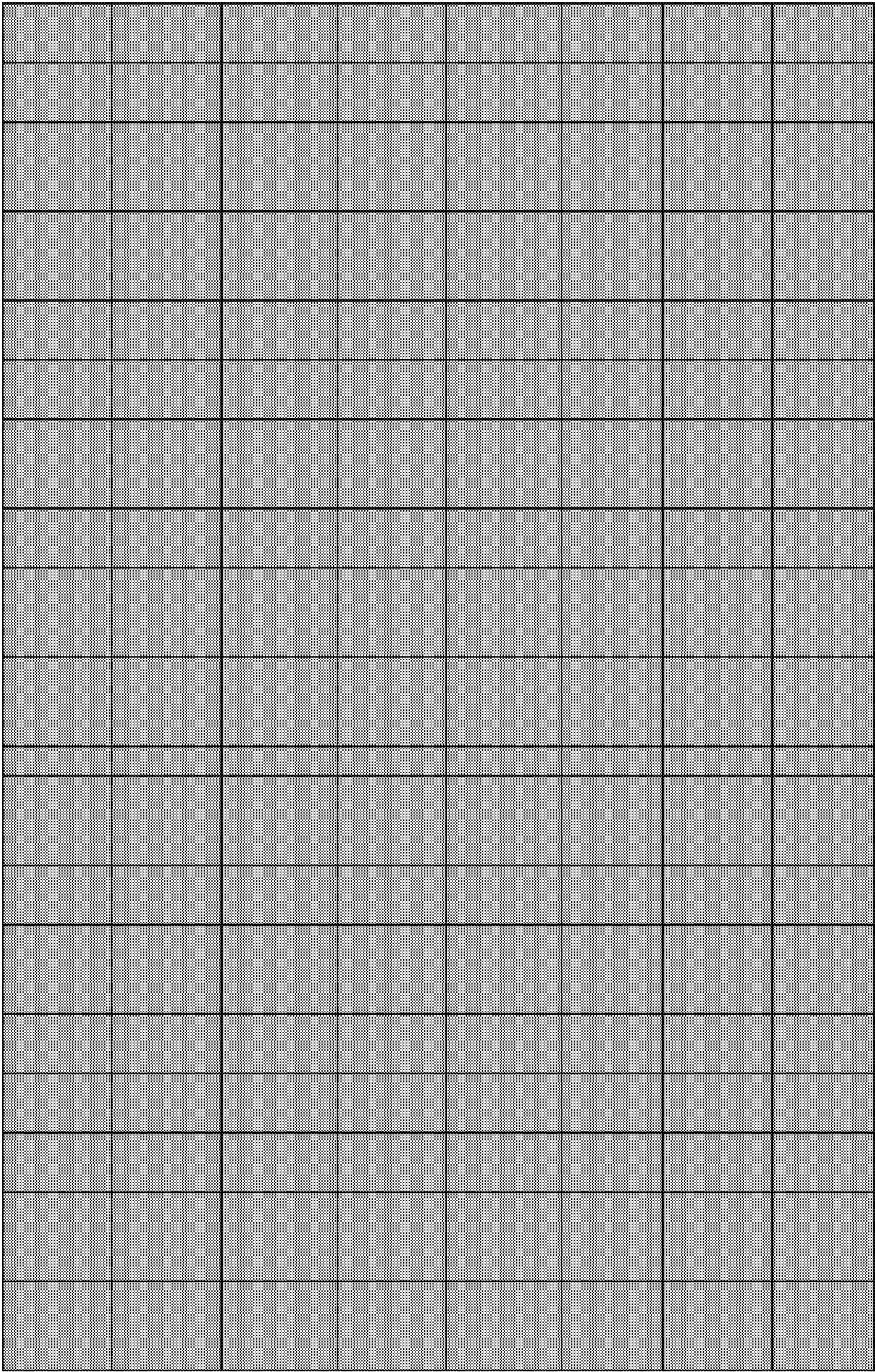
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The effects of paraquat (PQ) on cell growth, DNA, RNA and protein synthesis and on superoxide dismutase (SOD) activity
Paraquat and diquat, bipyridilium herbicides, have been shown to be accumulated into pneumocytes of three species in
We present a method based on monolithic spin column extraction and gas chromatography-mass spectrometry as an anal
The effect of H ₂ O ₂ on photosynthetic O ₂ evolution and photosynthetic electron transfer in cells of cyanobacteria <i>Anabaena</i>
H ₂ O ₂ at concentrations of 10 ⁽⁻⁵⁾ -10 ⁽⁻⁴⁾ M suppresses phototrophic growth of <i>Anacystis nidulans</i> and <i>Anabaena variabilis</i>
<i>Haemophilus ducreyi</i> causes chancroid, a sexually transmitted genital ulcer disease implicated in increased heterosexual
The aim of this work is to characterize the capability of several clay materials as preservative of organic pollution for use
Alternative models for more rapid compound safety testing are of increasing demand. With emerging techniques using h
A previously isolated mutant of <i>Salmonella typhimurium</i> lacking hydrogen sulfide production from both thiosulfate and s
Although cytosolic superoxide dismutases (SODs) are widely distributed among bacteria, only a small number of species
We assessed the roles of intrabacterial catalase and superoxide dismutase in the resistance of <i>Escherichia coli</i> to killing b
Lung lipid peroxidation is thought to be a basic pathophysiological phenomenon responsible for pulmonary damage in di
The processes of electron transfer in cyanobacterial photosystem I (PS I) and photoelectric methods of the studies were r
In this study we provide evidence that the spindle matrix protein Skeletor in <i>Drosophila</i> interacts with the human ASCIZ (
Glyphosate and glufosinate-ammonium herbicide tolerance traits were combined into both winter and spring lines of <i>Br</i>
<i>Arabidopsis</i> contains 16 putative chloroplast lumen-targeted immunophilins (IMMs). Proteomic analysis has enabled the
Ergothioneine (Egt), 2-mercapto-L-histidine betaine (ESH), is a dietary component acting as antioxidant and cytoprotecta

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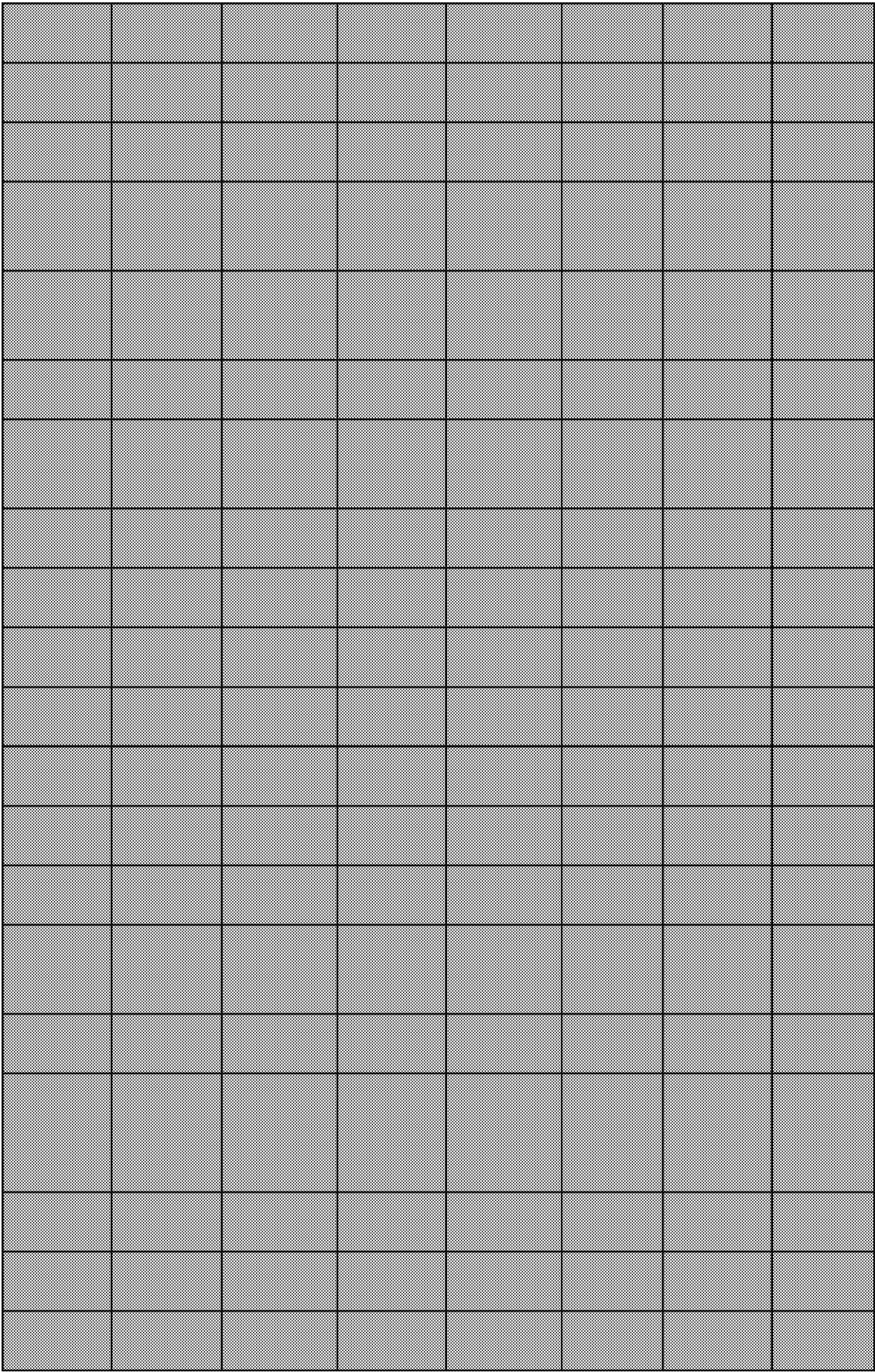
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The inhibitory effect of paraquat on cholinesterase activity was investigated in comparison with four paraquat derivative
AIMS: This study aimed to investigate the role of Toll-like receptor 9 in paraquat-induced acute lung injury (ALI). MAIN M
Paraquat is one of the most extensively used herbicides and has high toxicity for humans and animals. However, there is
We constructed a reporter system to detect a superoxide-generating methyl viologen using SoxRS of Escherichia coli and
In the dental caries pathogen Streptococcus mutans, an MarR-like transcriptional regulator (RcrR), two ABC efflux pumps
Capsicum annum tobacco mosaic virus (TMV)-induced clone 1 (CaTin1) gene was expressed early during incompatible in
Four patients were investigated for evidence of lipid peroxidation between 4.5 and 36 h (mean 22 h) after ingestion of pa
Paraquat, a widely used herbicide, causes severe, often fatal lung damage. In vivo studies suggest the alveolar epithelial
In an attempt to reduce the toxicity of paraquat several compounds were examined for their ability to increase the rate of
It has been suggested that both free metals and reduced ferredoxin (Fd) participate in the light-induced production of hy
The antioxidant capacity of butylated hydroxytoluene (BHT; 2,6-di-tert-butyl-p-cresol), propyl gallate (3,4,5-trihydroxyben
The small multidrug resistance protein family has two subclasses. In this study we used a mutation approach to see what
Autophagy allows cells fundamental adaptations to metabolic needs and to stress. Using autophagic bulk degradation ce
L cells were enriched about 100-fold for catalase by the transcription of the transfected cDNA for human catalase. In spit
We report here the isolation of a tandem duplication of a small region of the third chromosome of Drosophila melanogast
Ethane evolution was measured in rats breathing pure oxygen. Animals injected i.p. with a lethal dose of paraquat (50 m

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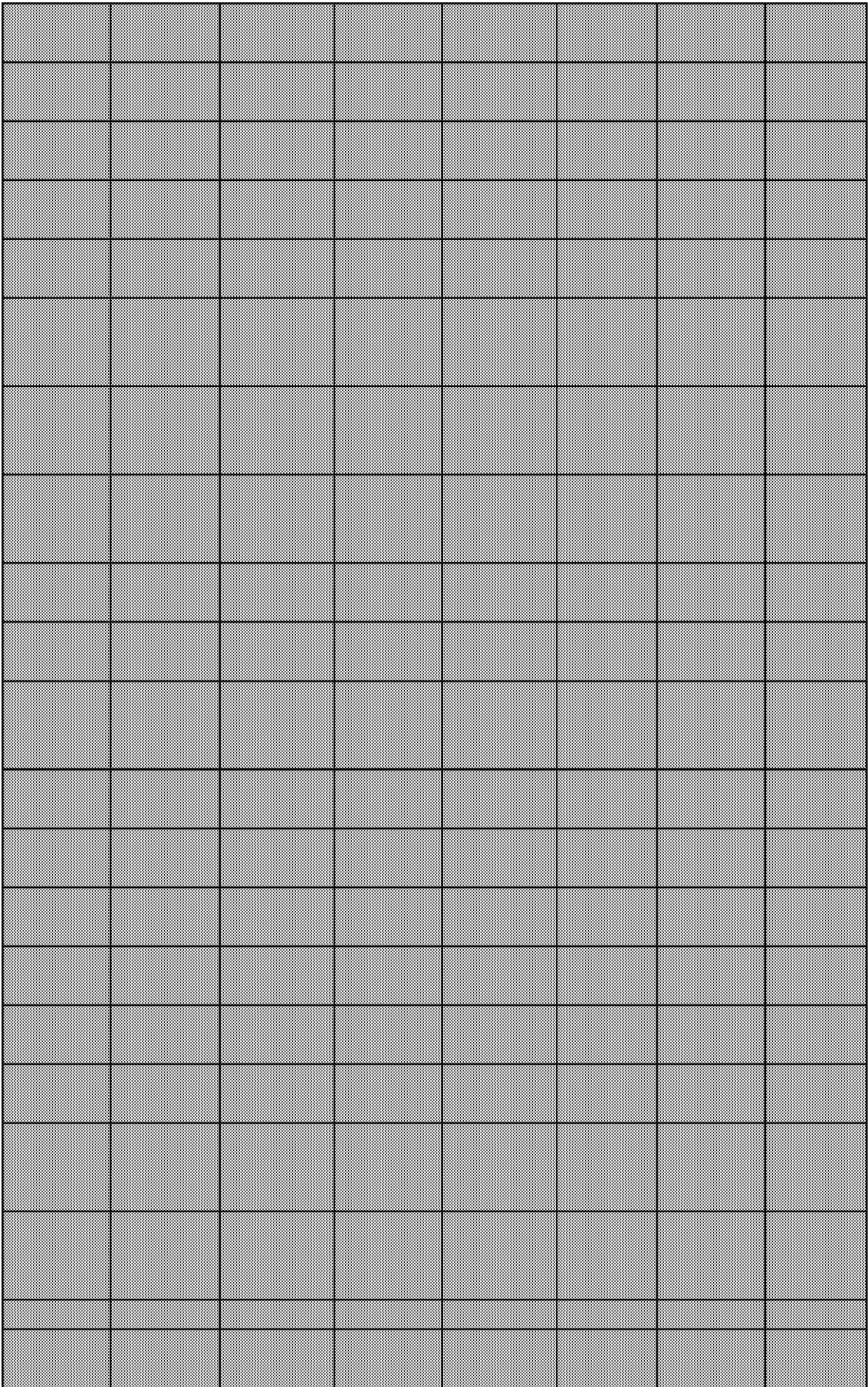
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Caulobacter crescentus is one of a small number of bacterial species that contain a periplasmic copper-zinc superoxide d
To determine the potential risk of pesticides frequently used in Indonesia, a new toxicity test was developed using the in
Paraquat (1,1'-dimethyl-4,4'-bipyridylium) and diquat (1,1'-ethylene-2,2'-bipyridylium) are the two most widely used bip
The accumulation and covalent binding of paraquat in rat lung slices were both linear for 6 hr in room air incubations. Bir
OBJECTIVE: To identify the mechanisms involved in paraquat (PQ)-induced pulmonary injury. MATERIALS AND METHODS
Micromolar concentrations of nonchelated ferrous sulfate catalyze a reaction between H2O2 and radiolytically generated
Two monofunctional NiFeS carbon monoxide (CO) dehydrogenases, designated CODH I and CODH II, were purified to hom
Melatonin, due to its pleiotropic effects plays an important role improving tolerance to stresses. Plants increase endogen
The O2-. production by aerobically cultured Escherichia coli in the presence of benzofurazan (1), 4,7-dimethylbenzofuraz
Four kinds of monoclonal antibodies (moAbs) specific to paraquat, diquat, methamphetamine (MA) and melatonin (MT)
OBJECTIVE: Chronic exposure to ultraviolet (UV) radiation induces skin photoaging (premature skin aging). UV irradiation
Superoxide is involved in the pathogenesis of various diseases, such as inflammation, ischemia-reperfusion injury and ca
Acetyl coenzyme A synthase (ACS) is an alpha2beta2 tetramer in which the active-site A-cluster, located in the alpha sub
Active oxygens cause major tissue damages in a number of distress syndromes. Pentoxifyline (POF) and its metabolites, a
Carbaryl was well absorbed from the small intestine of rats. In the cytosol fraction of intestinal mucosa, it was bound to a
Carbaryl and dieldrin were accumulated mostly in the liver, and paraquat was accumulated in the kidney of normal diet (
The petunia nuclear gene which encodes the chloroplast isozyme of superoxide dismutase, SOD-1, has been fused with a
The extracytoplasmic function sigma M of Bacillus subtilis is required for normal cell growth under salt stress. It is expres
Between January, 1986 and September, 1988, the Taiwan National Poison Center recorded 97 telephone consultations (4

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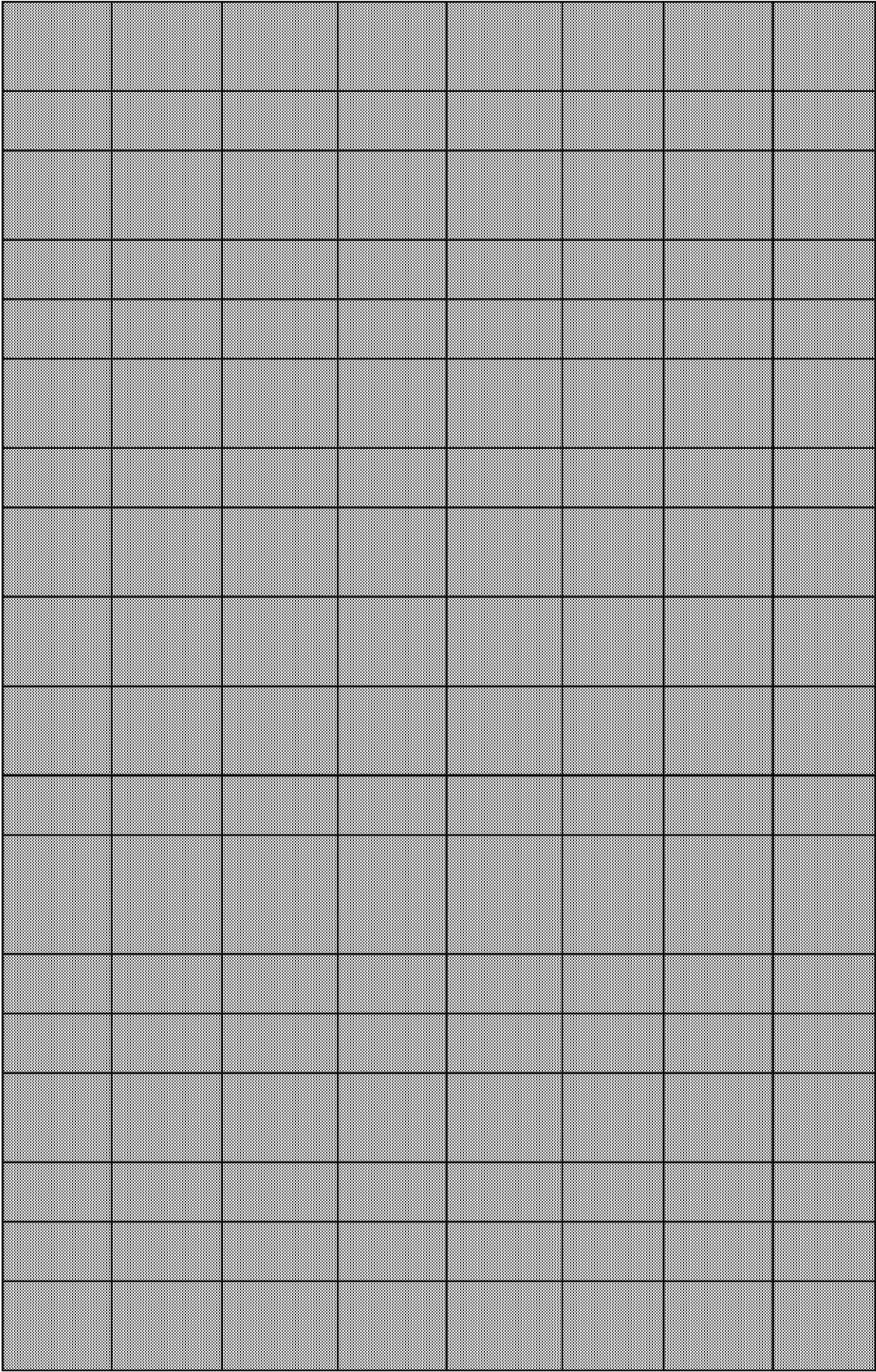
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There has been controversy concerning the products formed by a Fenton reaction. We determined the hydroxyl radical (.
In this work, using the EPR and PAM-fluorometry methods, we have studied induction events of photosynthetic electron
The separation of an autoxidizable brown pigment, P582, from <i>Desulfotomaculum nigrificans</i> is described. It reacted with
Bleomycin-dependent DNA chain breakage catalyzed by rat lung microsomes and NADPH was significantly inhibited by th
The nfo (endonuclease IV) gene of <i>Escherichia coli</i> is induced by superoxide generators such as paraquat (methyl violog
The study revealed that high molecular polyvinyl sulfate (PVP) or sulfonate (PVS), and low molecular alkyldisulfonates (N
Mutagenized <i>Arabidopsis</i> seedlings (ecotype Columbia) were screened for the ability to grow photoautotrophically on so
The genes <i>tehAB</i> located at 32.3 min on the <i>Escherichia coli</i> chromosome were initially identified by their ability to media
OBJECTIVE: Paraquat (PQ), a potent herbicide can cause severe toxicity. We report here that fibroproliferation phase of a
Reactivities of biologically active compounds with superoxide radicals were examined by measurement of electron spin r
<i>Rhodopseudomonas gelatinosa</i> 1 grew as an anaerobic facultative methylotroph with carbon monoxide as the sole carbon
There is general agreement that the lung damage seen in paraquat poisoning is due to the generation of free radicals in a
Upon exposure to carbon monoxide, the purple nonsulfur photosynthetic bacterium <i>Rubrivivax gelatinosus</i> produces hydro
The effect of some pesticides on the rhythmic and tonic activity of adductor muscle of fresh-water mussel (<i>Anodonta cyg</i>
The nature and expression of superoxide dismutase (SOD; EC 1.15.1.1) in the gram-positive food-borne pathogen <i>Listeria</i>
SO ₂ -bronchitis, papaine-emphysema and paraquat fibrosis were induced in Wistar rats. Blood pressure, cardiac index, to

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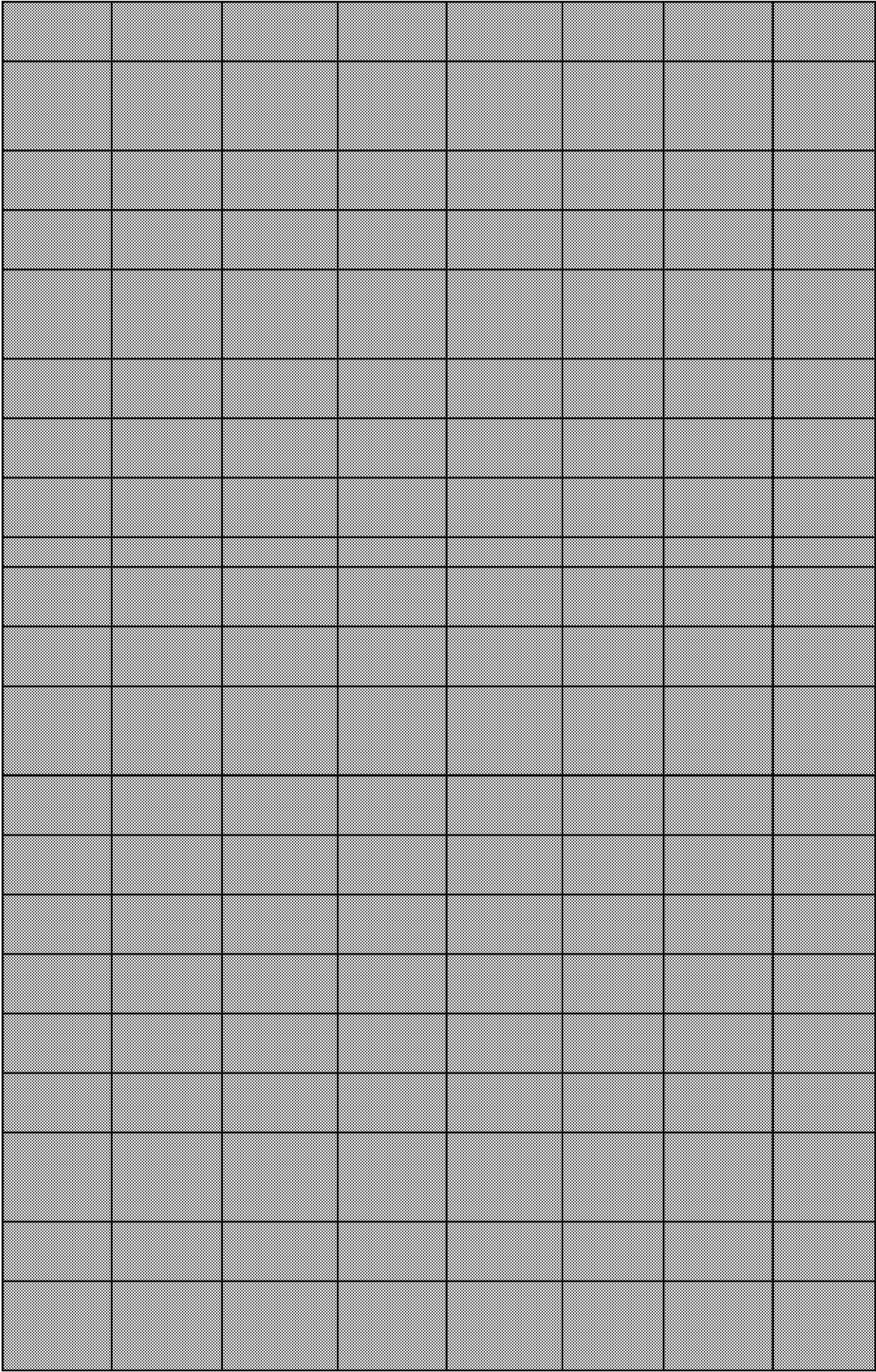
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L. G. Xiong, Y. J. Chen, J. W. Tong, J. A. Huang, J. Li, Y. S. Gong, Z. H. Liu. Tea polyphenol epigallocatechin gallate inhibits <i>Escherichia coli</i> by increasing endogenous oxidative stress. <i>Food Chem.</i> 2017. 217:196-204

Paraquat, a herbicide which is known to increase intracellular levels of superoxide anion (O ₂ ⁻), stimulated guanylate cyclase activity in rat liver.
In this study we exposed variegated leaves of <i>Pelargonium zonale</i> to strong sunlight (>1100 μmol m ⁻² s ⁻¹ of photosynthetically active radiation) for 2 h.
A comparison of the distribution of CO oxidation activity between soluble and particulate protein fractions obtained after extraction of rat liver with Triton X-100.
Lysyl oxidase (LOX) is a copper-dependent amine oxidase that plays a critical role in pulmonary fibrosis. Our previous studies have shown that LOX is a major component of the extracellular matrix (ECM) and is involved in the regulation of cell growth and differentiation.
Paraquat is a quaternary nitrogen herbicide triggering oxidative stress, mitochondrial damage and multi-organ injuries in rats.
Paraquat is a broad spectrum herbicide known to be highly lethal to man and animals. Its toxicity is characterized by acute lung injury, liver damage and renal failure.
Charcoal haemoperfusion will remove many toxins, and appears to be an attractively simple technique for doctors experienced in the management of poisoning.
OBJECTIVE: To explore the dose-effect relationship between vitamin C and paraquat (PQ) poisoning rats. Methods: A total of 40 Wistar-Kyoto rats were divided into four groups: control group, PQ group, vitamin C group and PQ + vitamin C group.
Aging of biological systems is influenced by various factors, conditions and processes. Among others, processes allowing the maintenance of a high level of cellular energy are essential for the survival of the organism.
A method for isolating intact chloroplasts from <i>Chlamydomonas reinhardtii</i> F-60 was developed from the Klein, Chen, Gilman and Arp method.
Paraquat is a bipyridylium non-selective contact herbicide commonly used worldwide. When ingestion occurs by humans, it causes severe damage to the respiratory system, liver, kidneys and heart.
The production and fate of superoxide and other free radicals, and the role of superoxide dismutase in the red cell is controlled by a complex system of enzymes and cofactors.
The effects of 2,4-D, glyphosate and paraquat on growth, photosynthesis and chlorophyll-a synthesis by a freshwater green alga, <i>Chlorella vulgaris</i> , were studied.
When the herbicide paraquat (1,1'-dimethyl-4,4'-bipyridylium) was administered to adult rat pulmonary alveolar macrophages, it caused a dose-dependent increase in the production of superoxide anion.
soxR governs a superoxide response regulon that contains the genes for endonuclease IV, Mn ²⁺ -superoxide dismutase, and a superoxide reductase.
soxR and soxS are adjacent genes that govern a superoxide response regulon. Previous studies revealed that induction of soxR and soxS is dependent on the presence of superoxide.
Insulin or insulin like signaling (IIS) pathway is a crucial pathway in <i>Caenorhabditis elegans</i> associated with mediating long life span.
An inducible O-demethylating enzyme system was characterized from <i>Clostridium thermoaceticum</i> cultivated at the expense of methanol.
The antibacterial effects of tea polyphenol epigallocatechin gallate (EGCG), a common phytochemical with a number of pharmacological activities, were studied.

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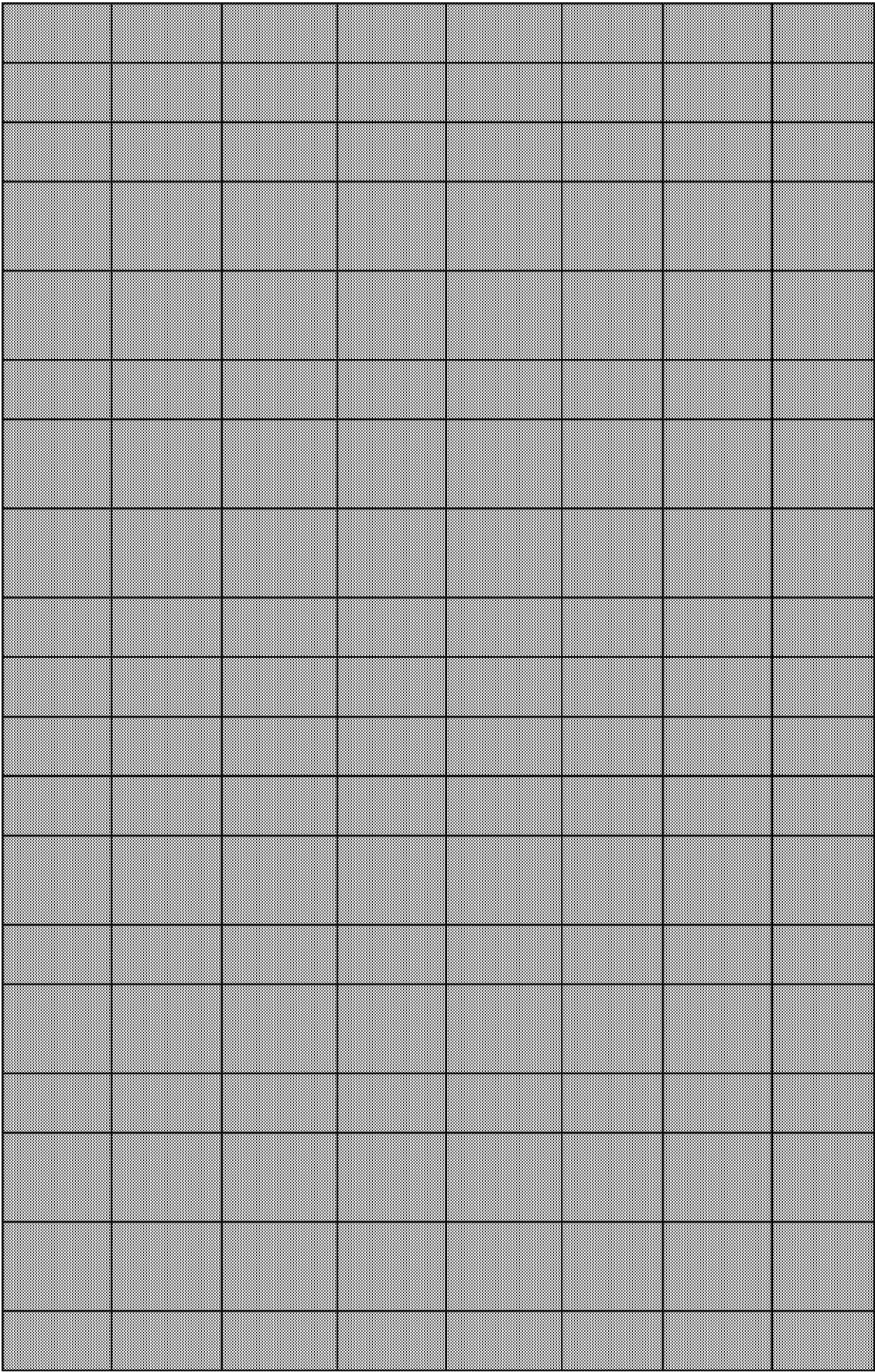
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Bipolar electrodes (BPE) are electrically floating metallic elements placed in electrified fluids that enable the coupling of
The effects of chlorpromazine hydrochloride (CPZ) on paraquat (PQ) poisoning were examined using male and female be
The effects of carbon tetrachloride (CCl4) and paraquat on the growth of Escherichia coli were investigated. Paraquat at
Electron spin resonance (ESR) studies on spin trapping of superoxide and hydroxyl radicals by 5,5-dimethyl-1-pyrroline-1-
It is well established that paraquat (PQ) poisoning can cause severe lung injury during the early stages of exposure, finally
In patients with subacute toxic reactions from paraquat poisoning (death within 11 to 41 days), the extent of lipid peroxid
The Fenton reaction-based anodic Fenton treatment (AFT) was applied to three widely used organic agrochemicals, carb
The smallest membrane protein shown to catalyze ion-coupled transport is documented in this report. A gene coding for
EmrE, a multidrug transporter from Escherichia coli removes toxic compounds from the cell in exchange with protons. Gl
Both prokaryotic and eukaryotic cells contain an array of membrane transport systems maintaining the cellular homeost
EmrE is an Escherichia coli 12-kDa protein that confers resistance to toxic compounds, by actively removing them in exch
OBJECTIVE: To investigate the characteristics of pesticide poisoning in Jiangsu Province, China, and to provide a scientific
Glyphosate is the world's most widely used herbicide. A potential substitute for glyphosate in some use patterns is the h
Some properties of a hydrogenase from the recently isolated phototrophic sulfur bacterium Lamprobacter modestohalo
We constructed conjugates of superoxide dismutase (SOD) and the Fc fragment of human immunoglobulin G. The lysyl re
ETHNOPHARMACOLOGICAL RELEVANCE: Dictyophora indusiata is a medicinal mushroom traditionally used in China for a
BACKGROUND: Hydrocyanines are widely used as fluorogenic probes to monitor reactive oxygen species (ROS) generatio
The active oxygen species generated by ionizing radiation, hyperoxia, paraquat and hydrogen peroxide induced unsched

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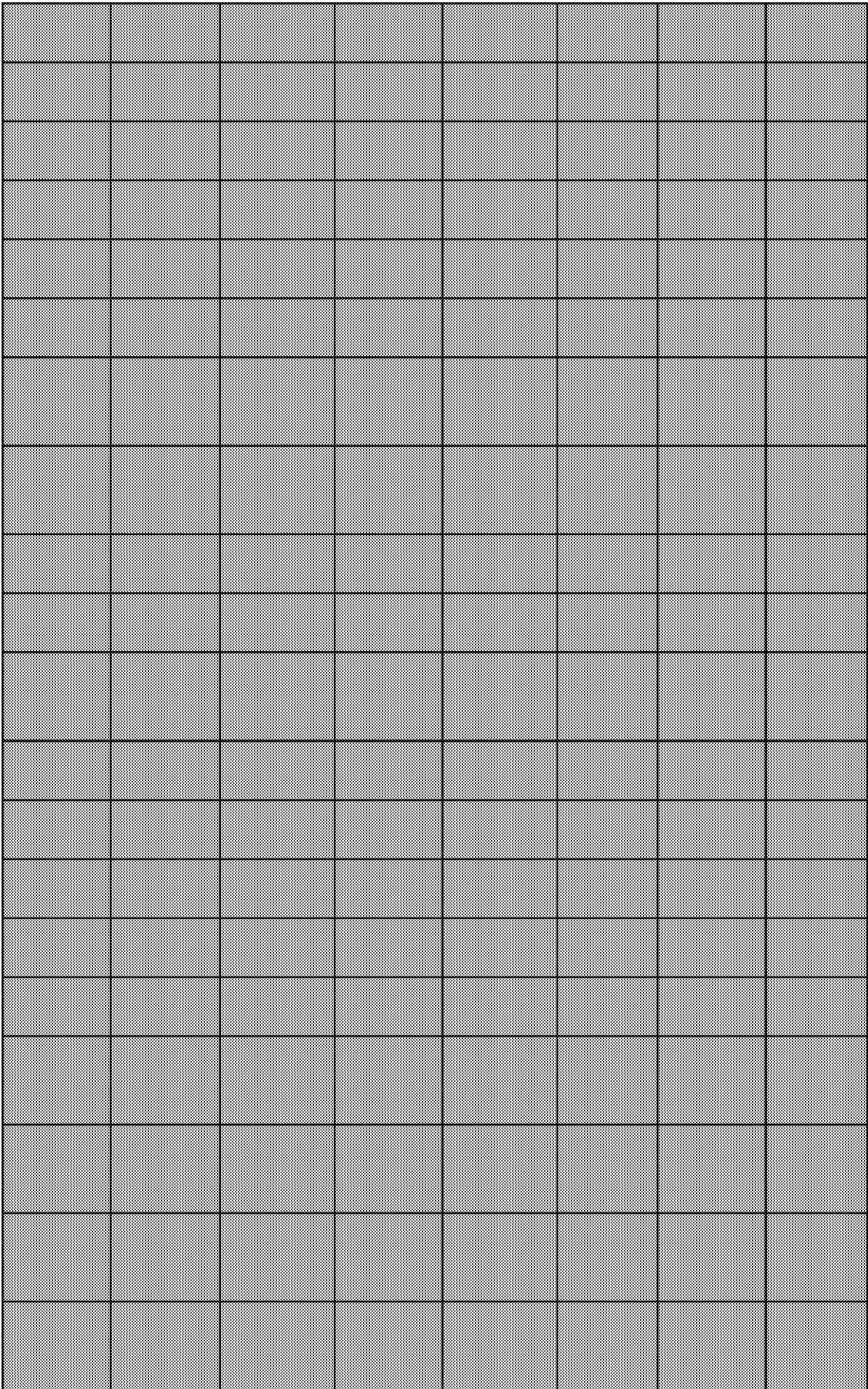
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Paraquat and diquat undergo redox cycling mediated by xanthine oxidase in the NADH-dependent manner. In these pro
I The insulin like-growth factor (IGF) system is well recognized to control muliple processes including growth, differentia
Research in the major genetic model systems has revealed a strong and consistent association between dietary restrictio
The Animal and Biostatistics Core will work directly with Project Leaders to design, plan, monitor and interpret all animal
The proceedings contain 344 papers. The topics discussed include: online extraction LC-MSn method for the detection of
People are subjected to harmful effects of free radicals either from physical factors such as exposure to ionizing radiation
Herein, we demonstrate a facile route for synthesis a new photocatalyst based on TiO2-curcumin nanoparticles for photo
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PESTAB. The effects of perfusion with paraquat were determined on the glucose metabolism and pentose cycle flux of iso
Introduction: A major group of immunophilins are FK506 binding proteins (FKBPs), some of which contain a tetratricopep
In summary, PQ is accumulated in Type I and Type II alveolar epithelial cells by an energy-dependent system (13). Althou
Holzenberger et al (2003) recently reported that mice heterozygous for the IGF-I receptor gene in all tissues (Igflr ^Δ mice)
Holzenberger et al (2003) recently reported that mice heterozygous for the IGF-I receptor gene in all tissues (Igflr ^Δ mice)
Holzenberger et al (2003) recently reported that mice heterozygous for the IGF-I receptor gene in all tissues (Igflr ^Δ mice)
Holzenberger et al (2003) recently reported that mice heterozygous for the IGF-I receptor gene in all tissues (Igflr ^Δ mice)
The present work aimed at investigating the effect of fullerenol in the treatment of paraquat-induced acute lung injury (A
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Continuing our previous work in which we showed wide-ranging strain differences in MPTP neurotoxicity in male mice an
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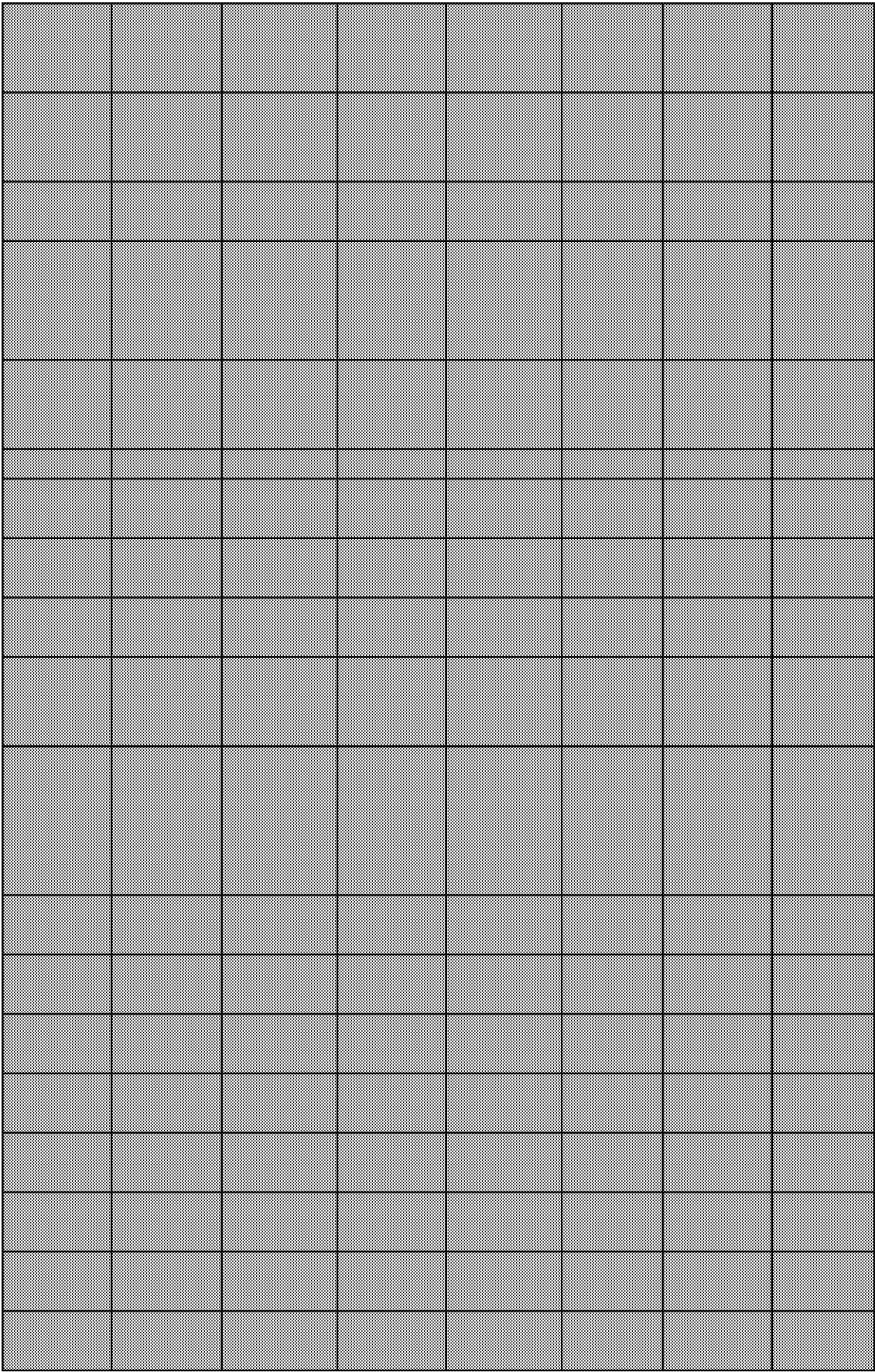
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Parkinson's disease (PD) is a chronic, degenerative neurological disorder that is estimated to affect at least 1million indiv
DESCRIPTION (provided by applicant): Parkinson's disease (PD) is a chronic, degenerative neurological disorder that is est
A system is developed to define agricultural, occupational toxicology research needs and problem areas using the best av
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Exposure to the herbicides Paraquat (PQ) and Roundup® may cause cell lesions due to an increase in oxidative stress leve
PESTAB. Paraquat (gramoxon; 1,1'-dimethyl-4,4'-dipyridilium) is widely used in Israel. A survey of all hospitalized cases is
Ethylene regulates plant growth, development, and responsiveness to a variety of stresses. Cloning of the Arabidopsis El
The sporophytic development of maize microspores was investigated in anther culture under oxidative stress conditions.
Paraquat and cold tolerance of doubled haploid maize plants selected and re-generated from microspores using paraqua
Paraquat adsorption, degradation, and remobilization were investigated in representative tropical soils of Yom River Bas
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DESCRIPTION (provided by applicant): Cellular senescence prevents the proliferation of mitotically-competent cells in the
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DESCRIPTION (provided by applicant): Oxidative stress resulting from chemical exposure has been implicated as a contrik
Papers in this symposium (St. Louis, Mo., USA, 8-13 Apr. 1984) covered: dermal absorption; methodology of field studies
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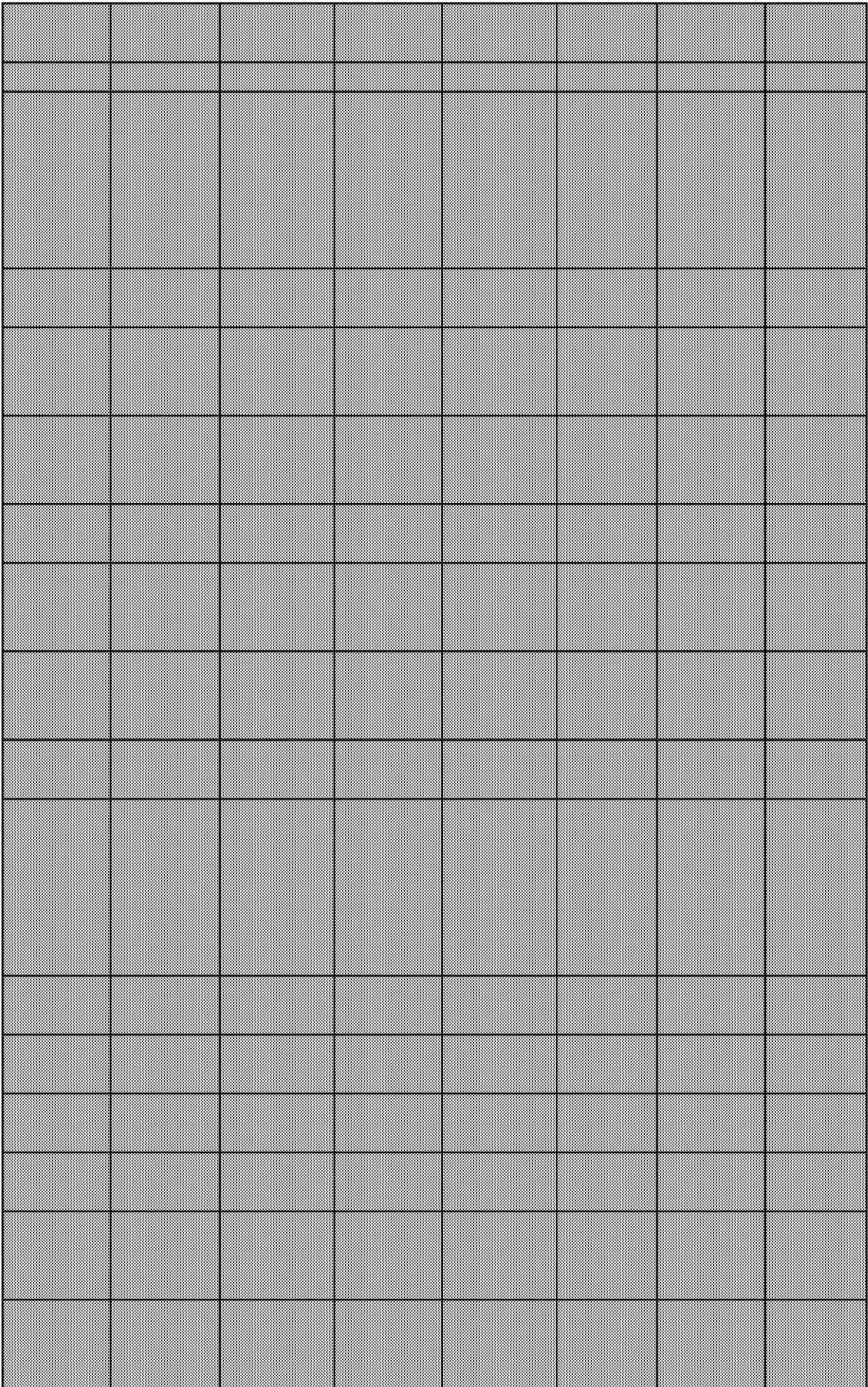
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Part 1 of this loose-leaf manual contains 30 project manager's guides providing practical information on the safety manag
PESTAB. Paraquat, a widely used bipyridyl herbicide, causes severe lung damage leading to death days or even weeks aft
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Introduction: Mitochondrial ferritin (FtMt) precursor is encoded by an intronless gene targeted to mitochondria, where it
Light/dark regulation of several photosynthetic enzymes has been studied under near in vivo conditions using the cyanob
The acute toxicity of paraquat (1,1-dimethyl-4,4-bipyridinium dichloride) to fingerlings of <i>Oreochromis niloticus</i> (Trewav
Exposure to paraquat (PQ), a common herbicide, acutely results in lung and extra-pulmonary organ damage in humans a
Enhancement of the production of benzoylformate reductase (BFR) was attempted under oxidative stress established by
Objective: To present the possible correlation between exposure to intermediates of the halopyridine Symtet (2,3,5,6-tet
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Background: Various axonal guidance proteins have been implicated in ALS including semaphorins, ephrins and Nogo-A (
Introduction: Large amounts of herbicides are presently used by industrialized nations worldwide, with inexorable huma
PESTAB. Mice were exposed to paraquat at varying dose levels and treated with ascorbinic acid and glutathione. Ascorbi
Adverse environmental growth conditions are related to oxidative stress production in plant cells. Catalase, CAT, (H ₂ O ₂ :
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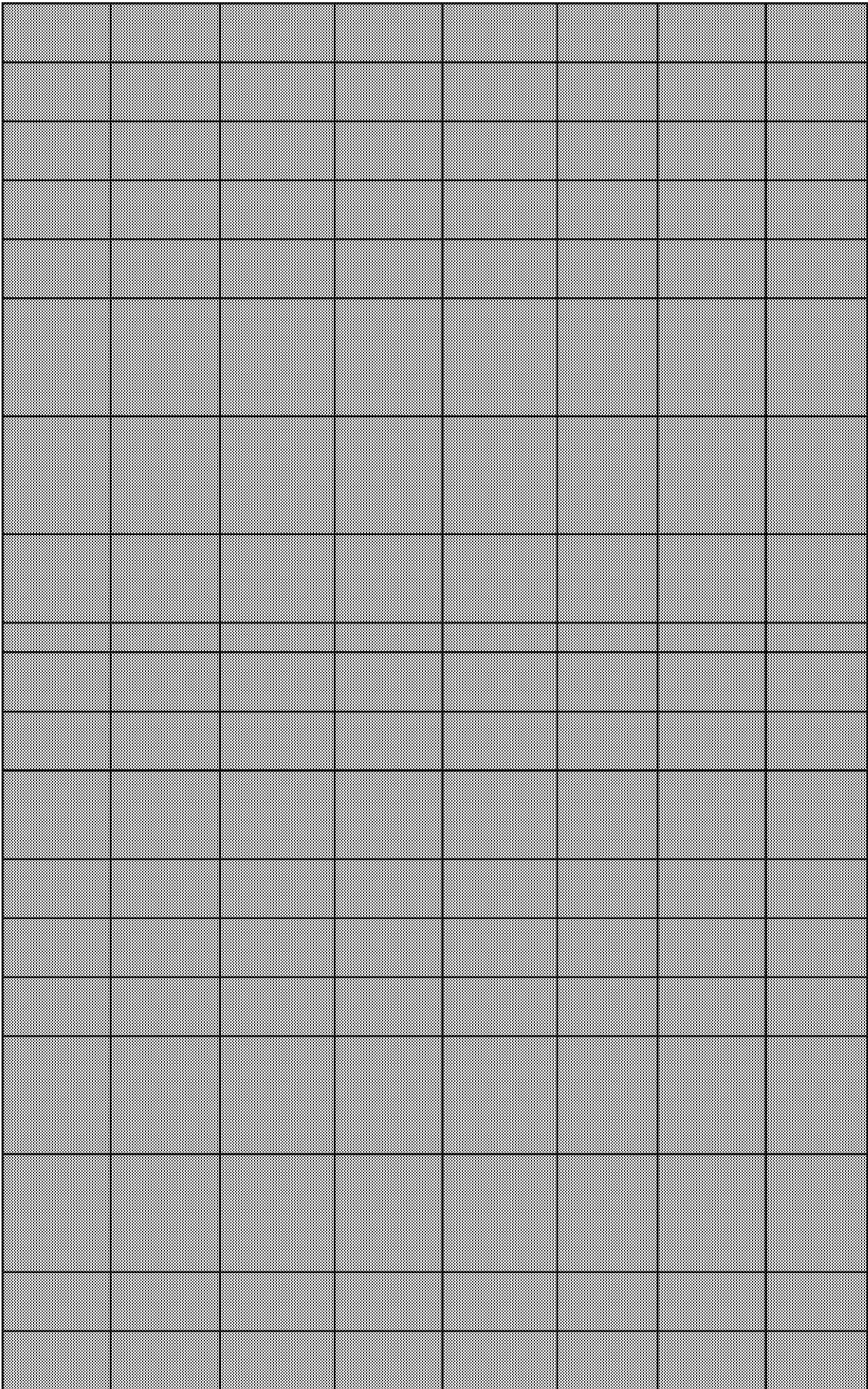
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HAPAB A case of fatal poisoning by chlorophos (trichlorfon) is presented. The patient died six hours after admission to th
[unreadable] DESCRIPTION (provided by applicant): Parkinson's Disease (PD) is a progressive neurodegenerative disorder
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DESCRIPTION (provided by applicant): Parkinson's Disease (PD) is a progressive neurodegenerative disorder characterize
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BIOSIS COPYRIGHT: BIOL ABS. Oxidative stress, defined as a shift of the balance between prooxidative and antioxidative r
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DESCRIPTION (provided by applicant): Parkinson's disease (PD) is a devastating neurodegenerative disorder characterized
BIOSIS COPYRIGHT: BIOL ABS. A novel approach to toxicant detection is described, based on monitoring bacterial reaction
?-Tocopheryl succinate is one of the most effective analogues of vitamin E for inhibiting cell proliferation and inducing ce
Epoxides are frequently formed as metabolites of unsaturated hydrocarbons by cytochrome P-450-dependent monooxyg
Epoxides are frequently formed as metabolites of unsaturated hydrocarbons by cytochrome P-450-dependent monooxyg
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Biosis copyright: biol abs. rrm benzo-a-pyrene 4 ipomeanol oxidase reductase esterase amidase glucuronyltransferase su
HAPAB A spot test and an ion-exchange chromatographic method for clinical use in determining paraquat in human urine
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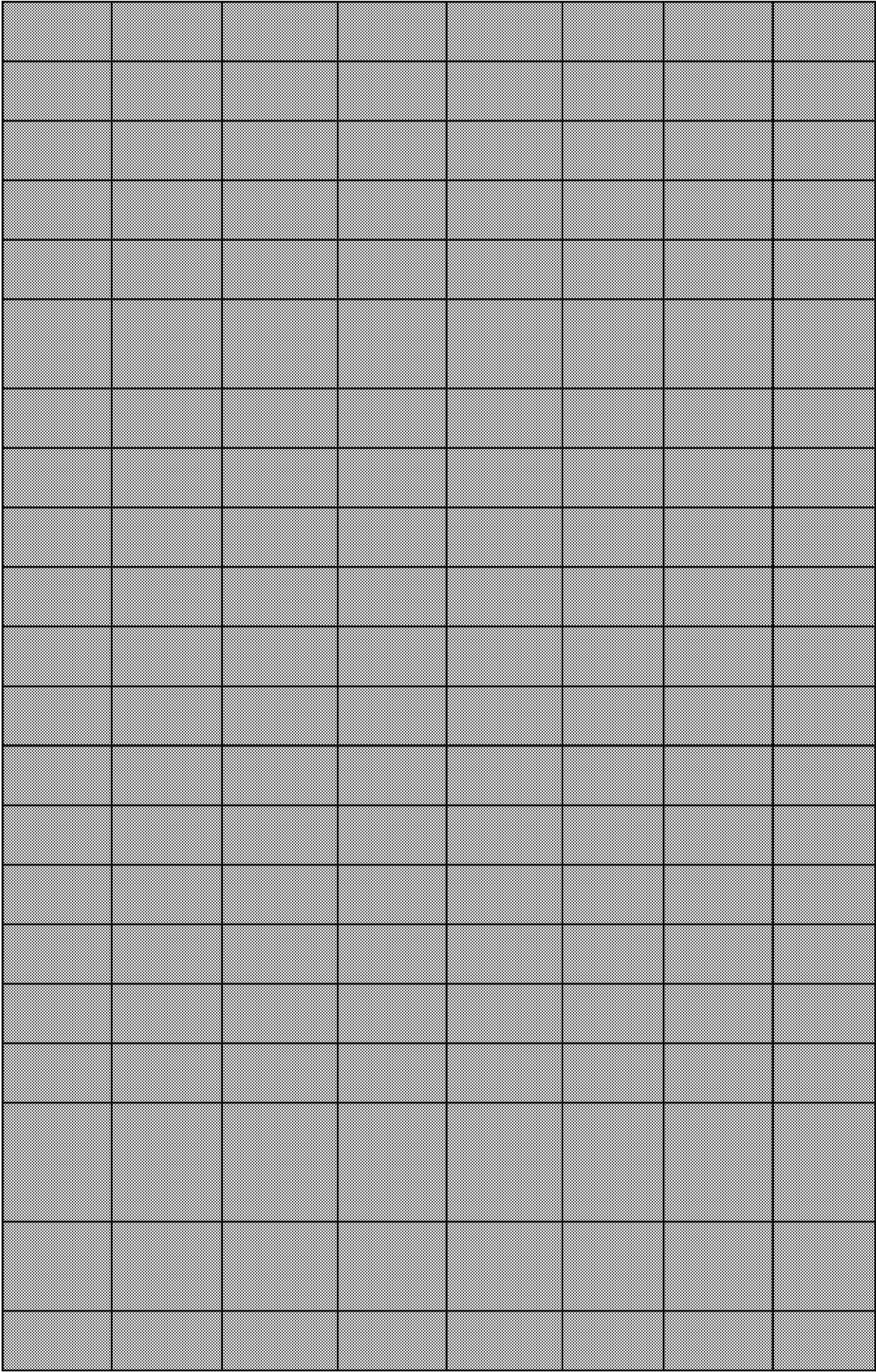
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The authors analysed 69 cases of acute poisoning with pesticides (occupational, accidental and suicidal) treated at the To
A pivotal role in maintaining cellular redox homeostasis and redox-sensitive signaling belongs to a family of thiol-related
The herbicide paraquat (1,1'-dimethyl-4,4'-bipyridinium) is known to cause pulmonary fibrosis and dopaminergic neuron
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The ability of engineered nanoparticles (eNPs) to generate reactive oxygen species (ROS) is connected with their toxic pr
Many human neurodegenerative diseases are poorly understood and untreatable, including Parkinson's (PD), Alzheimer'

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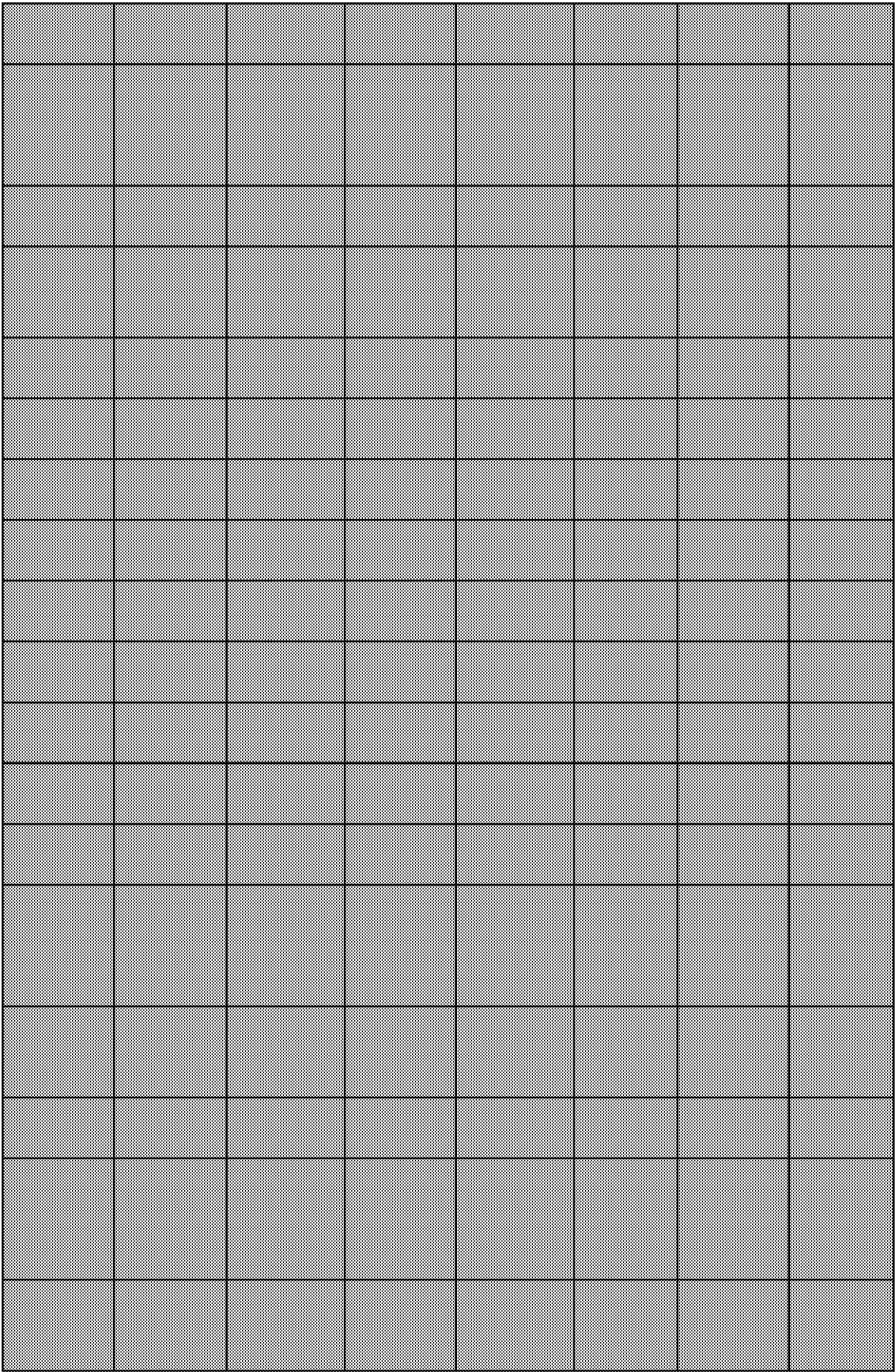
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Many human neurodegenerative diseases are poorly understood and untreatable, including Parkinson's (PD), Alzheimer's
Pseudomonas aeruginosa has two genes encoding ferredoxin NADP(+) reductases, denoted fprA and fprB. We show here
BIOSIS COPYRIGHT: BIOL ABS. The objectives of this study were to obtain information on crop selection, tillage, and nutri
Parkinson's disease (PD) is the second most common neurodegenerative disease. About 2% of the population above the
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A method of measuring oxidative DNA damage is presented which is an adaptation of the 32P post labeling procedure. T
A method of measuring oxidative DNA damage is presented which is an adaptation of the 32P post labeling procedure. T
Pulmonary toxicity of furan derivatives is reviewed. The chemistry of 4-ipomeanol (32954588) and its derivatives is discu
DESCRIPTION (provided by applicant): Exposure to environmental and industrial chemicals has been linked with a variety
DESCRIPTION (provided by applicant): Cobalamins (Cbl, vitamin B12 derivatives) are essential cofactors in mammals. How
HEEP COPYRIGHT: BIOL ABS. To gain experience in the in vitro assay of environmental teratogens, 32 pesticides and TCDF
Study question: What is the mechanism by which light irradiation affects human sperm capacitation and fertilization Sum
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PESTAB. Livers from 3-mo-old male Wistar rats were perfused with Krebs-Henseleit buffer (control), buffer containing 1 r
PESTAB. A study was performed to determine the effects of paraquat on lipids of rat livers. After 24 hours of starvation r
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The toxicology and use of herbicides, fungicides, biocides, and pyrethrins were discussed. Topics included sources, produ

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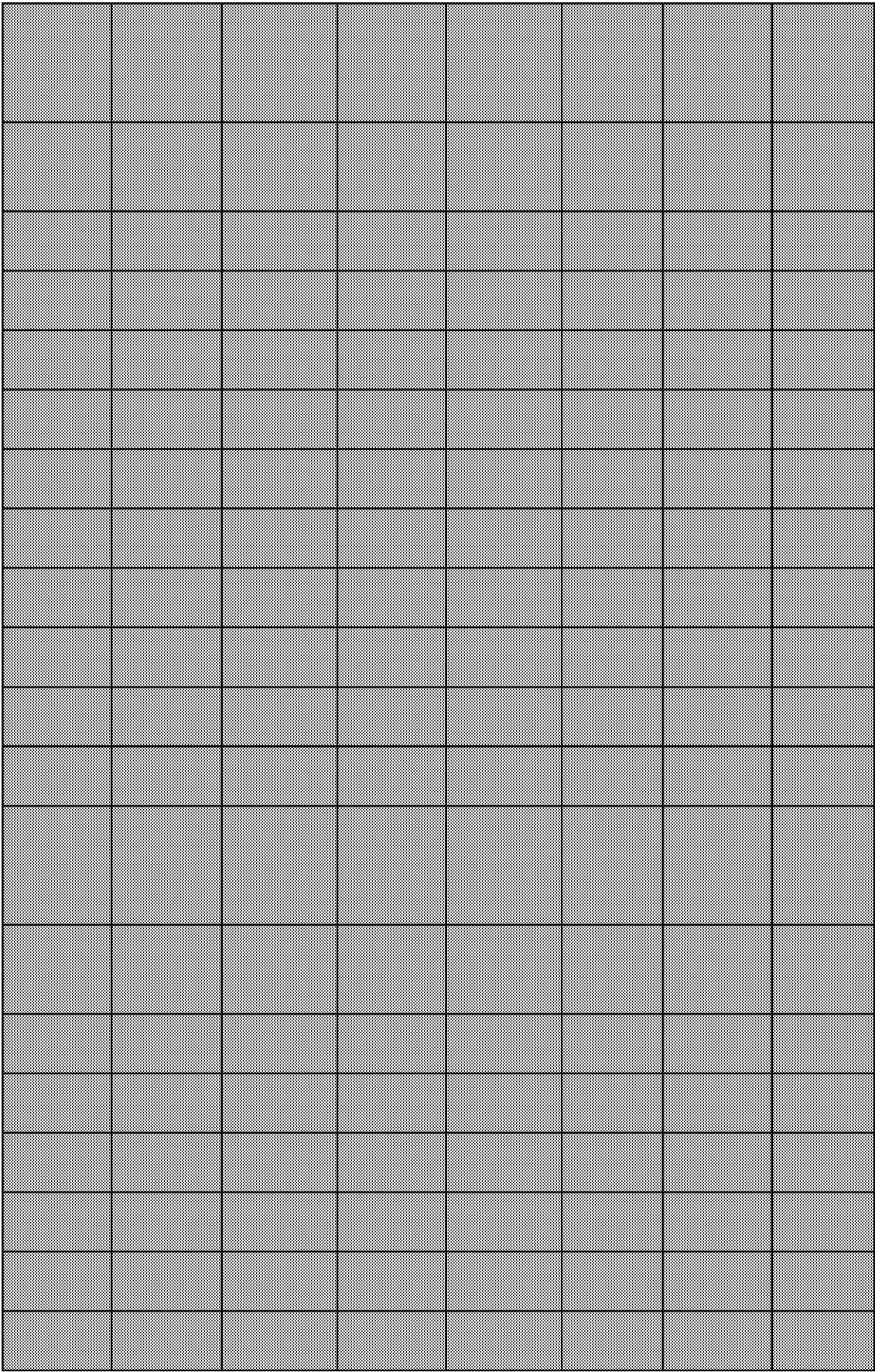
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Obesity is associated with leptin resistance, which may arise because of increased expression of PTP1B in the hypothalamus.
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There is substantial evidence that important environmental agents of concern for human health exert biological toxicity through oxidative stress.
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Previous data demonstrate the BCAA leucine (Leu) to stimulate AMPK and Sirt1 signaling in vitro and in vivo. Nicotinic acid (NA) also stimulates AMPK and Sirt1 signaling in vitro and in vivo.
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This subproject is one of many research subprojects utilizing the resources provided by a Center grant funded by NIH/NCI.
The etiology of Parkinson's disease (PD) involves gene/environment interaction. While most of the identified genetic mutations are in genes that encode for proteins involved in the ubiquitin-proteasome pathway, the exact mechanism of how these mutations lead to PD is not clear.
Pyroligneous acid (PA), obtained from charcoal production, has been reported excellent capability in antioxidant by chemical synthesis.
Perinatal brain damage and subsequent neurological dysfunction are disorders with complex etiology. Over the past three decades, there has been a significant increase in the incidence of these disorders.

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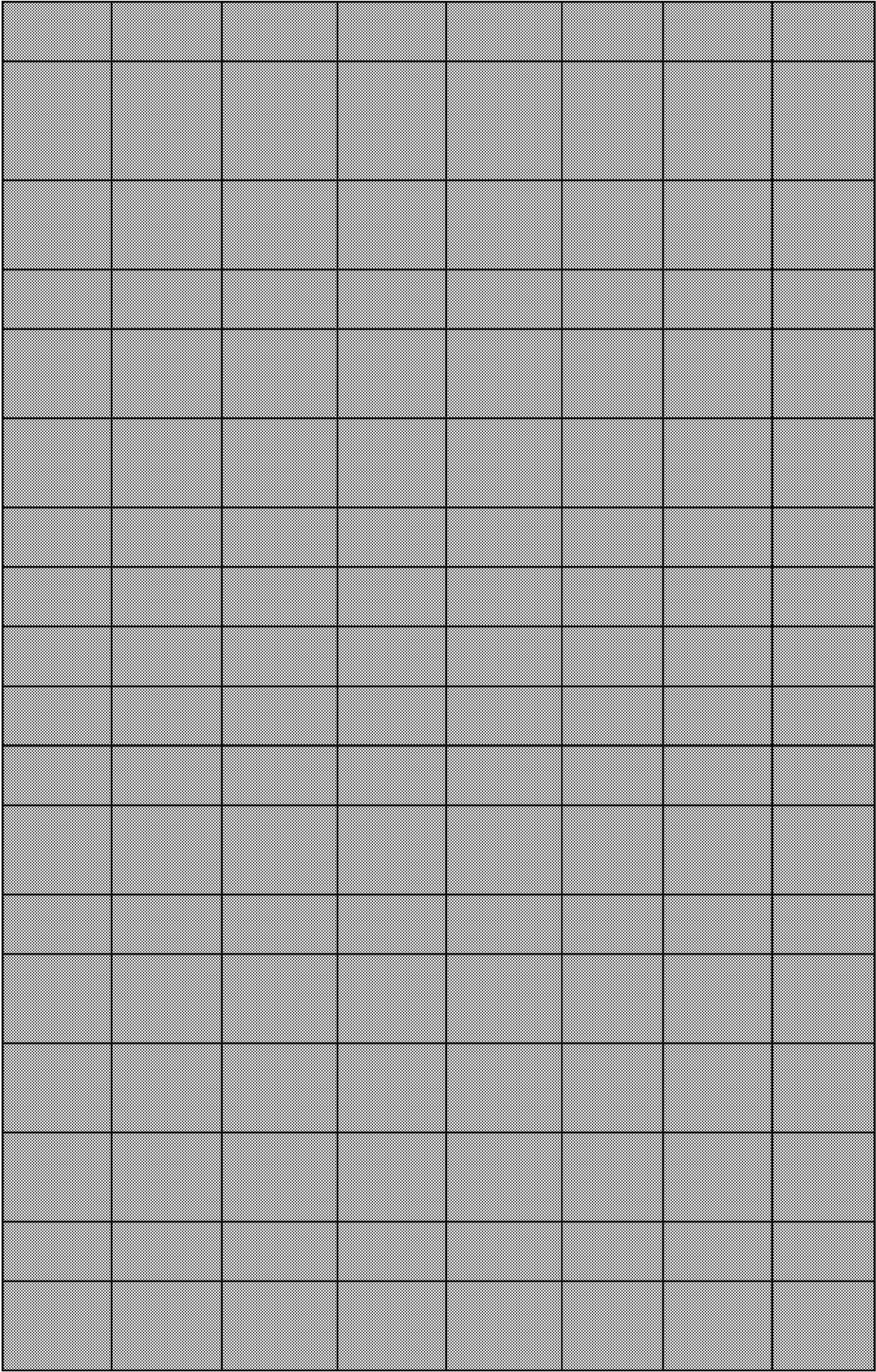
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PESTAB. Blood levels of glucose-6-phosphate dehydrogenase (G-6-PD) and sensitivities to paraquat were compared among
Linear and non-linear modelling of human acute toxicity (as human lethal concentrations; HLCs) of the 38 organic chemicals
The effect of parenterally administered paraquat on serum glucose and the glycogen content of skeletal muscle, renal cortex
Sheep digoxin antibody was incorporated in liposomes, such that its biological activity was retained. Antibody incorporated
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This proposal is for a pathway to independence award. The candidate will learn new techniques and create a divergent re
A functionalised cyclobis(paraquat-p-phenylene) attached by a rigid linker to a tetrathiafulvalene unit, which is incapable
BIOSIS COPYRIGHT: BIOL ABS. The induction of chromosomal aberrations (CA) was studied in the peripheral lymphocytes
In vitro assessment of the oxidation of the guanine base in GTP can be used to test free radical generating systems and to
We have previously demonstrated that treatment with several dopamine (DA) neurotoxins, including 1-methyl-4-phenyl
Objective: To describe the characteristics of acute poisoning fatalities reported to the National Poisons Information Cent
Ferredoxins (Fd) are iron-sulfur proteins involved in different oneelectron transfer pathways. Fd levels decrease under ac
Two water-soluble C-3-symmetric 1,2,3-triazole cages containing alpha-cyclic tripeptide were efficiently synthesized. The
BIOSIS COPYRIGHT: BIOL ABS. From 1988 to 1991, 732 patients (91.1% Chinese) were admitted to four general medical w

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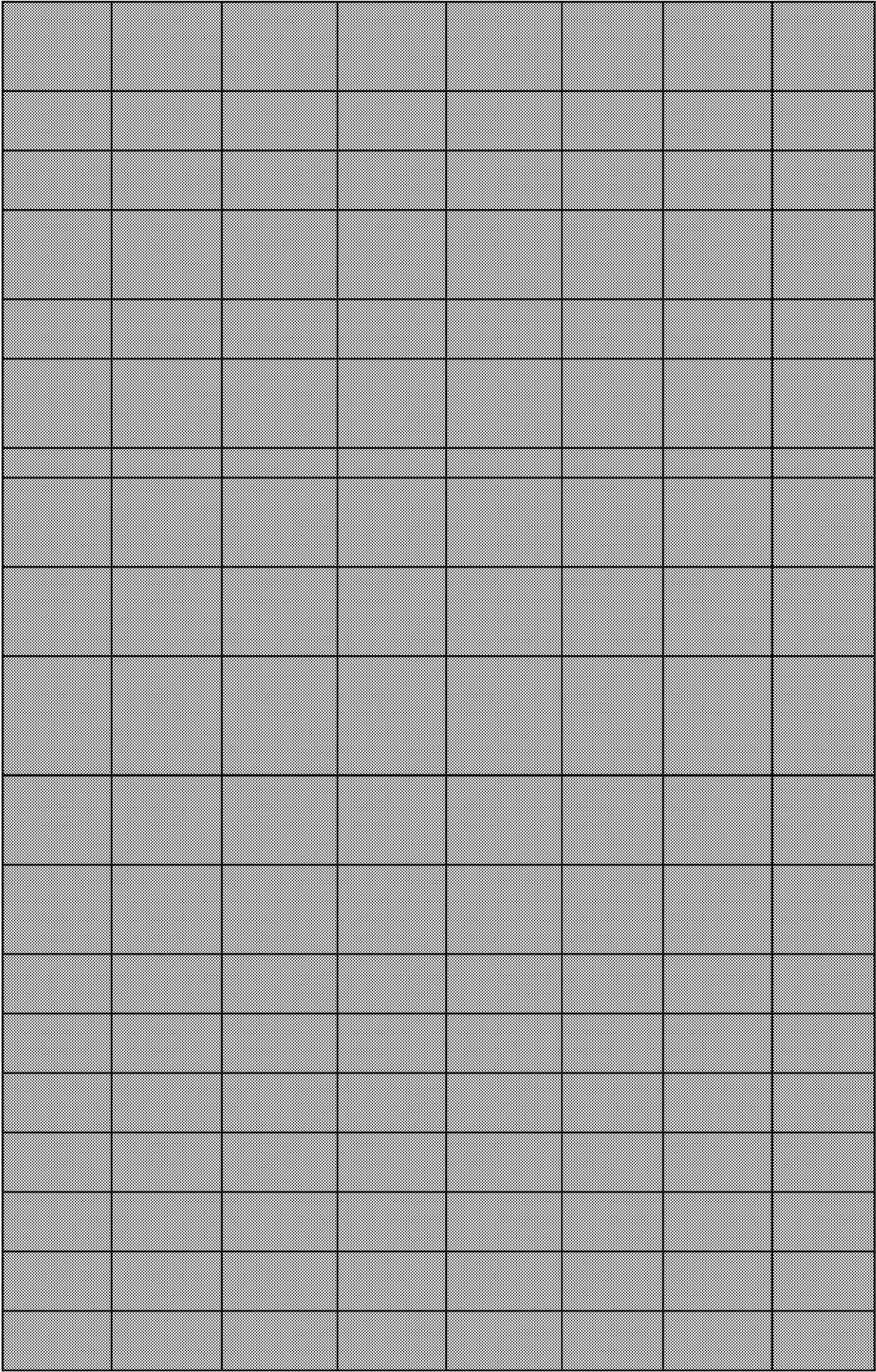
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Here we discuss the possible contribution of DSB DNA repair and chaperone systems for the formation of genotype resist
Many chemicals to which humans are regularly exposed interfere with normal endocrine (hormonal) function, including
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Fermentation equations for acetone-butanol (AB) were applied in a metabolic analysis of the reaction network under var
Parkinson's disease (PD) is a debilitating neurodegenerative disorder that affects ~2 percent of the population over age 6
Despite over forty years of investigation on low-level light therapy (LLLT), the fundamental mechanisms underlying photo
Two years ago at this meeting, I presented data on smoking, urate, nonsteroidal anti-inflammatory drugs and exercise in
We recently reported that the T-box transcription factor midline (mid) functions within the Notch-Delta signaling pathwa
OBJECTIVE: To investigate the antidotal ability and mechanisms of methylene blue (MB) against paraquat (PQ)-poisoned
The epidemic of neurodegenerative diseases, such as Alzheimer's disease, Parkinson's disease, and cerebral ischemia (e.
Objective: To study the effects of extracts from Aconitum kongboense on gut immunity of Drosophila melanogaster. Met
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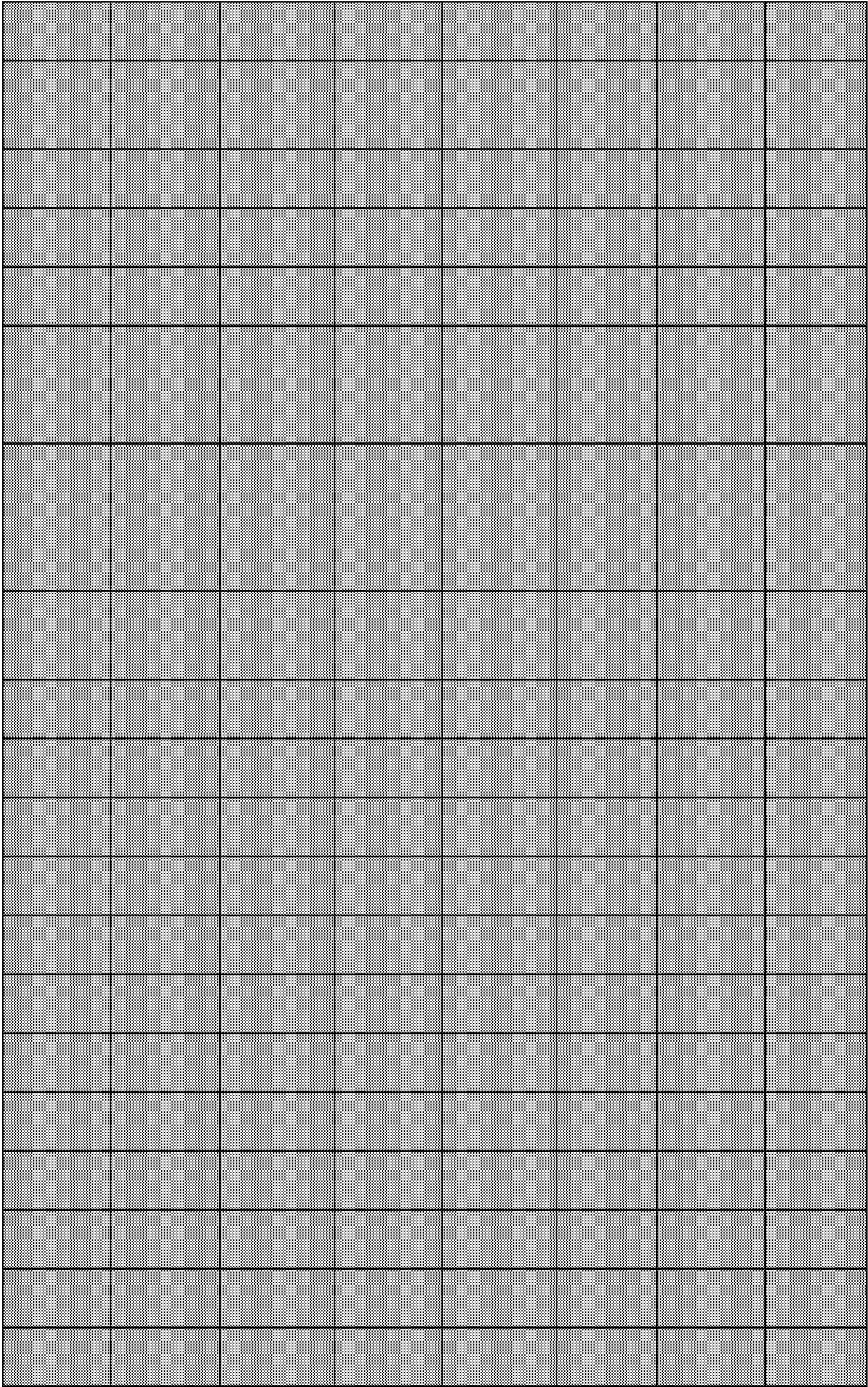
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DESCRIPTION (provided by applicant): The close relationship between increased resistance to stress and extended life span
BIOSIS COPYRIGHT: BIOL ABS. In order to evaluate a potential role of mitochondria in the mediation of toxicity of paraquat
BIOSIS COPYRIGHT: BIOL ABS. Paraquat, a widely used herbicide, is extremely toxic, causing multiple organ failure in humans
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Stress tolerance generally declines with age as a result of functional senescence. Age-dependent alteration of stress tolerance
It is proposed to conduct an interrelated series of experiments to elucidate the biochemical mechanism of the antagonism
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It is proposed to conduct an interrelated series of experiments to elucidate the biochemical mechanism of the antagonism
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Two of the most important preventable risk factors for human morbidity and mortality are exposure to cigarette smoke and
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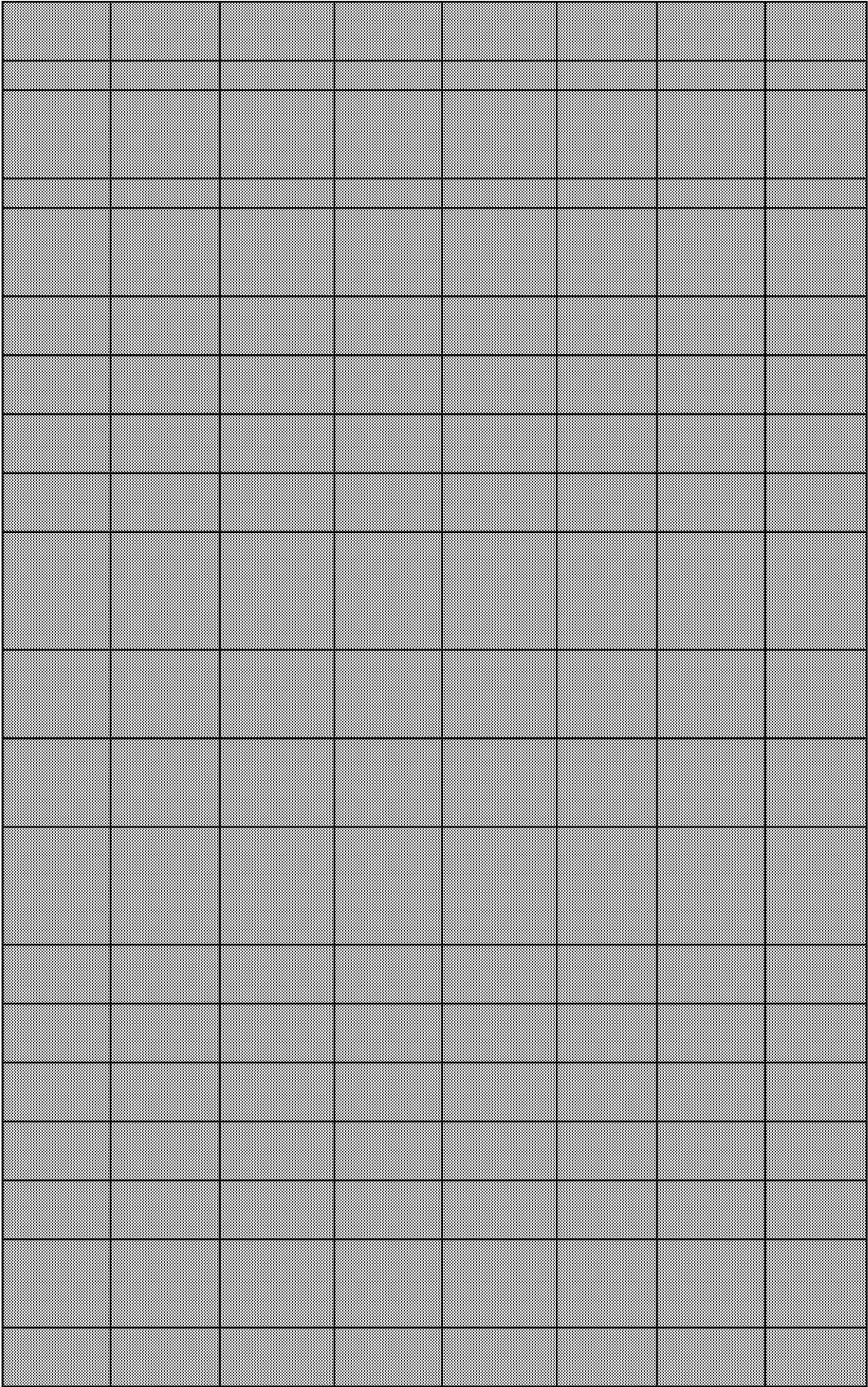
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DESCRIPTION (Taken from the Investigator's Abstract) It has become increasingly apparent that environmental risk factors
Biosis copyright: biol abs. rrm literature review human occupational health pesticides toxicology insecticide toxin pesticide
BIOSIS COPYRIGHT: BIOL ABS. Rolling, potential erodible cropland predominates the Northeast dairy region so corn (Zea
EIS: Epidemiology Information System
Chronic elevated manganese (Mn) exposure has been associated with neurological disorders, while the effects and mechanisms
The interactions of paraquat (1910425) and diquat (85007) with amino acids were studied to assess the impact of various
BIOSIS COPYRIGHT: BIOL ABS. Foods, in addition to supplying the nutrients, vitamins, and minerals necessary to sustain life
? DESCRIPTION (provided by applicant): Two common risk factors for the development of Parkinson's disease (PD) are oxidative
PESTAB. Poisoning cases account for between 5 and 10% of hospitalizations in Germany; the estimated number of poisonings
This paper analyzes the interaction between resistance to free radicals, development under starvation conditions, sex, and
Many environmental pollutants may induce the formation of reactive oxygen species (1-2). Due to their high reactivity, they
Background: Paraquat (PQ) is a dipyridyl herbicide that sustains damage due to redox cycling. An important aspect of PQ
The cytochrome P-450-dependent microsomal and mitochondrial ecdysone 20-monooxygenase systems convert ecdysone
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PESTAB. A case report is presented of a patient admitted to a hospital for the treatment of parkinsonism which may have
This subproject is one of many research subprojects utilizing the resources provided by a Center grant funded by NIH/NC
This subproject is one of many research subprojects utilizing the resources provided by a Center grant funded by NIH/NC
BIOSIS COPYRIGHT: BIOL ABS. Important determinants or principles in developmental toxicology are: (1) genotype; (2) de
In Europe, cultivated land is mainly given over to corn (11.4 Mhas), wheat and barley (40.75 Mhas) and orchards (40.5 M
PESTAB. Primary axonal degeneration resulting from the section or crush of peripheral nerve is accompanied by a number

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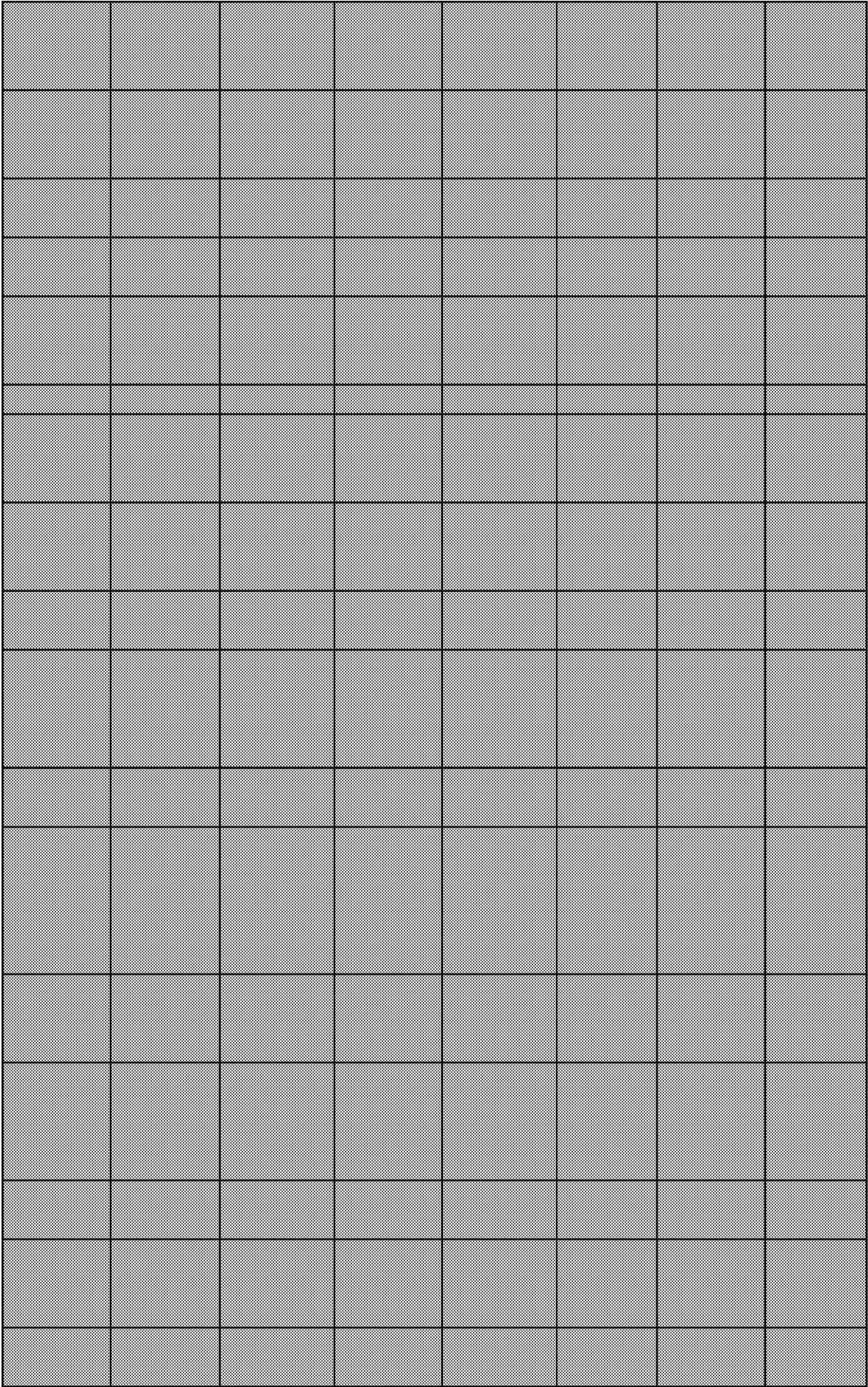
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BIOSIS COPYRIGHT: BIOL ABS. Selected biochemical responses were measured in channel catfish (<i>Ictalurus punctatus</i>) exposed to various concentrations of paraquat and methyl parathion.
BIOSIS COPYRIGHT: BIOL ABS. The binding of fluorodifen, fenarimol, acifluorfen, 2,4-DES, methyl parathion, paraquat and glyphosate to channel catfish (<i>Ictalurus punctatus</i>) was studied.
Although the cause of Parkinson's disease (PD) is unknown, both environmental and genetic factors are likely to contribute to its pathogenesis.
A number of neurotoxic mechanisms have been implicated in the death of nigrostriatal dopamine neurons in PD. These include oxidative stress, mitochondrial dysfunction, and protein aggregation.
Biosis copyright: biol abs. rrm literature review wastewater treatment drinking water electrophoresis organic chemicals in water
Oxidant stress in mitochondrial dysfunction has been linked with a myriad of diseases. We hypothesized that in vivo assessment of mitochondrial function could provide insight into the mechanisms of oxidative stress.
Biosis copyright: biol abs. rrm meeting report human pulmonary toxicology free radical formation drug metabolism pulmonary disease
Biosis copyright: biol abs. rrm abstract glutathione reductase superoxide dismutase ascorbate peroxidase chloroplast electron transport
Biosis copyright: biol abs. rrm meeting abstract meeting poster pisum-sativum herbicide ascorbate peroxidase superoxide dismutase
<i>Drosophila melanogaster</i> accumulate large and small heat shock protein transcripts in response to oxidative damage. The expression of these proteins is regulated by the heat shock factor-1 (HSF1).
Biosis copyright: biol abs. rrm pesticide chemical toxicology barbados st. lucia trinidad tobago west indies
The [Ru(II) (phen)(2)(pPDIp)](2+) complex, where pPDIp is the symmetric bridging ligand phenanthroline-perylene-phenanthroline, was synthesized and characterized.
Biosis copyright: biol abs. rrm meeting abstract meeting poster paraquat herbicide defense oxidative stress
Aim: This study aimed to systematically review the preclinical data of neuroprotective agents for Parkinson's disease (PD).
Since 1962, paraquat has been promoted in the Netherlands as a weed killer under the trade name of Gramoxone. Only a few studies have been published on the toxicity of paraquat in the Netherlands.
[unreadable] DESCRIPTION (provided by applicant): The long-term goal of this proposal is to determine the mechanisms of paraquat toxicity.

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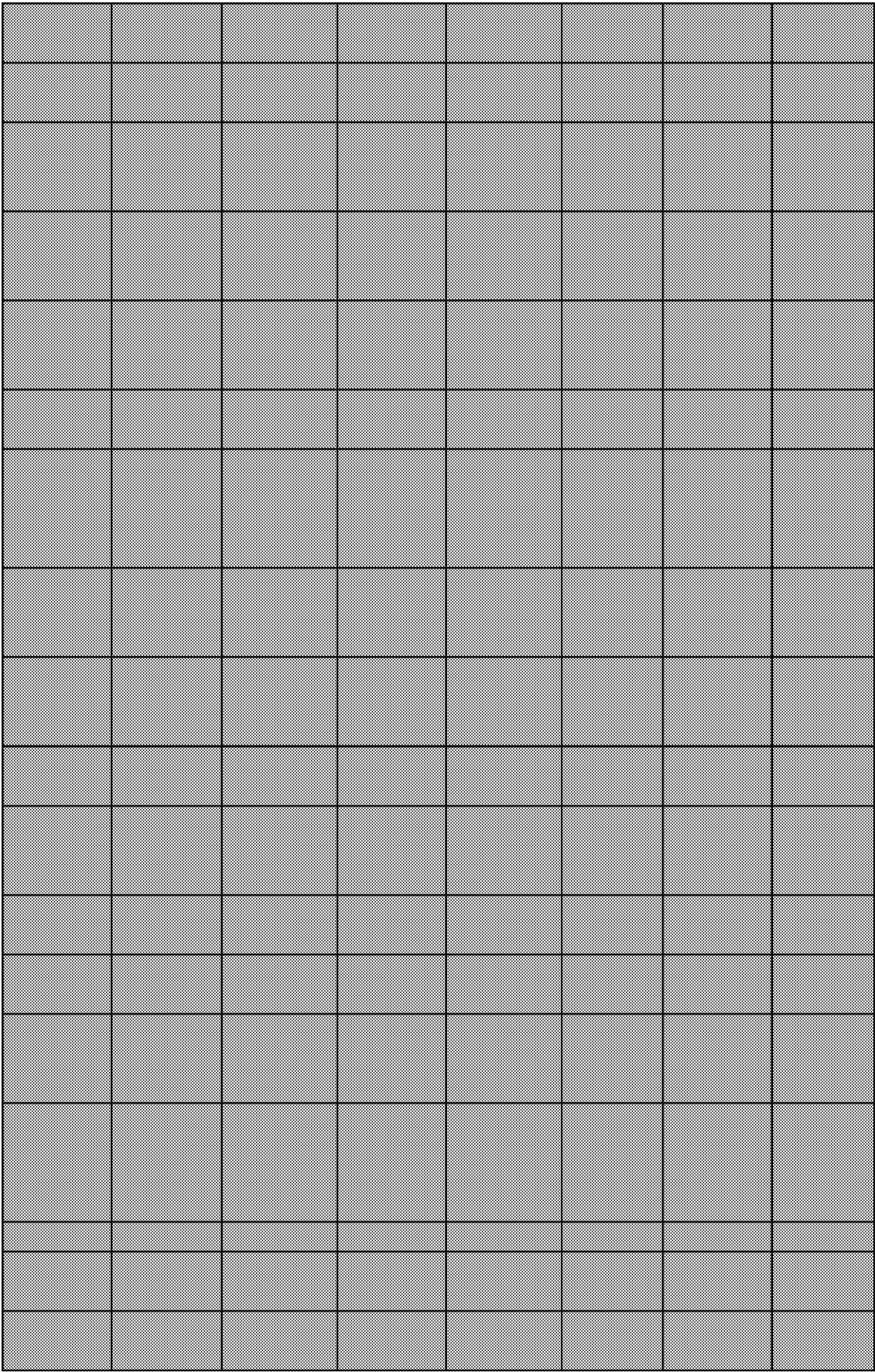
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In order to explore the anti-aging effect of baicalein, female <i>Drosophila melanogaster</i> as a model organism was used to s
Biotic and abiotic stress belong to the major limiting factors in crop production. Plants possess a diverse defence systems
The effect of colletotrichin, purified from <i>Colletotrichum tabacum</i> , on a diverse array of physiological processes was dete
Heep copyright: biol abs. abstract super oxide anion glutathione herbicide
Paraquat (PQ) was administered to rats for 7 days by iv infusion from osmotic minipump at dosage rates of 250 and 500 r
Chalcones (1, 3-diaryl-2-propene-1-ones) are natural compounds extracted from fruits and vegetables. Structural and in v
Biosis copyright: biol abs. rrm human animal carcinogen neurotoxicity
Background: Aging is a strong risk factor for cardiovascular diseases. Stress- and proliferation-induced vascular cell senes
A kinetic analysis for determining the surface characteristics which control electron transfer rates at carbon surfaces was
Background: Paraquat poisoning is one of the most common lethal poisonings in Isfahan, the central province of Iran. Du
BIOSIS COPYRIGHT: BIOL ABS. In MEIC, all 50 reference chemicals were tested in 61 in vitro assays. To provide a backgrou
DESCRIPTION (provided by applicant): Aggregation of α -synuclein (α S) plays an important but still poorly understood role
HEEP COPYRIGHT: BIOL ABS. The herbicides paraquat, added in vitro inhibited lipid and protein biosynthesis by lung slice
Based on homology with anaerobic enzymes, <i>E. coli</i> YdbK was annotated as a putative pyruvate: ferredoxin/ flavodoxin-c
Biosis copyright: biol abs. rrm review insecticide acaricide fungicide herbicide
Objective: To review the potential benefits and the evidence for charcoal hemoperfusion (CHP) in the treatment of intox
DESCRIPTION Paraquat (PQ) is a specific pneumotoxin that causes tissue damage by enhancing oxidative stress within the

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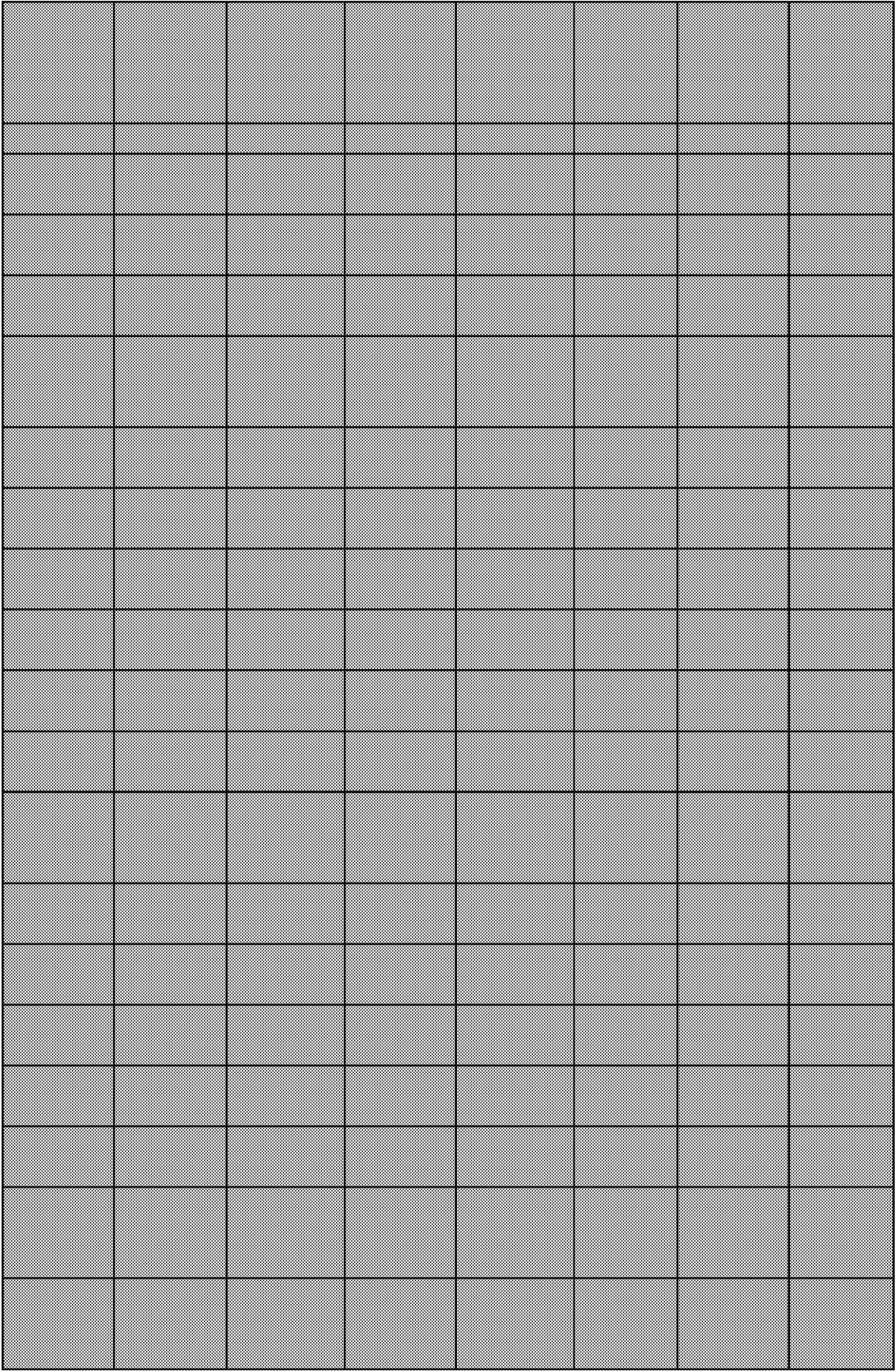
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Pulmonary fibrosis is the pathologic basis for a variety of incurable human chronic lung diseases. IL-17A, a glycoprotein s
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DESCRIPTION (provided by applicant): Recent studies indicate that perinatal brain infection/inflammation may contribute
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DESCRIPTION (provided by applicant): Recent studies indicate that perinatal brain infection/inflammation may contribute
In Escherichia coli K-12, transcription of zwf, the gene for glucose 6- phosphate dehydrogenase, is subject to growth rate-
DESCRIPTION: (Adapted from the Investigator's Abstract) Environmental exposure to some neurotoxicants produce dama
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Parkinson's disease is a slowly progressive degenerative disorder with classic motor symptoms that include resting tremor
Parkinson's disease is a slowly progressive degenerative disorder with classic motor symptoms that include resting tremor
During industrial processes, the dairy organism Streptococcus thermophilus is exposed to stress conditions. Its ability to s
BIOSIS COPYRIGHT: BIOL ABS. The chief clinical and analytical aspects of the suicide of a 21-year-old male with psychiatri
The aim of this work was to study the effect of paraquat (P2+) on NADPH iron-dependent lipid peroxidation (basal peroxi
BIOSIS COPYRIGHT: BIOL ABS. Paraquat, a useful contact herbicide is now used in over 130 countries of the world, includi
The white-ivory assay of Drosophila is based on the detection of reversions to wild-type phenotype of ommatidia with th
Objective: To follow the evolution of lethal cases by chemical products registered in the Spanish Toxic Surveillance Syste
Atrazine (ATR), a widely used pesticide in the U.S., is the most frequently detected pesticide in ground and surface water
Biosis copyright: biol abs. rrm abstract rana-piapiens methyl-4-phenylpyridinium methyl-4-phenyl-1 2 5 6-tetrahydropyrid

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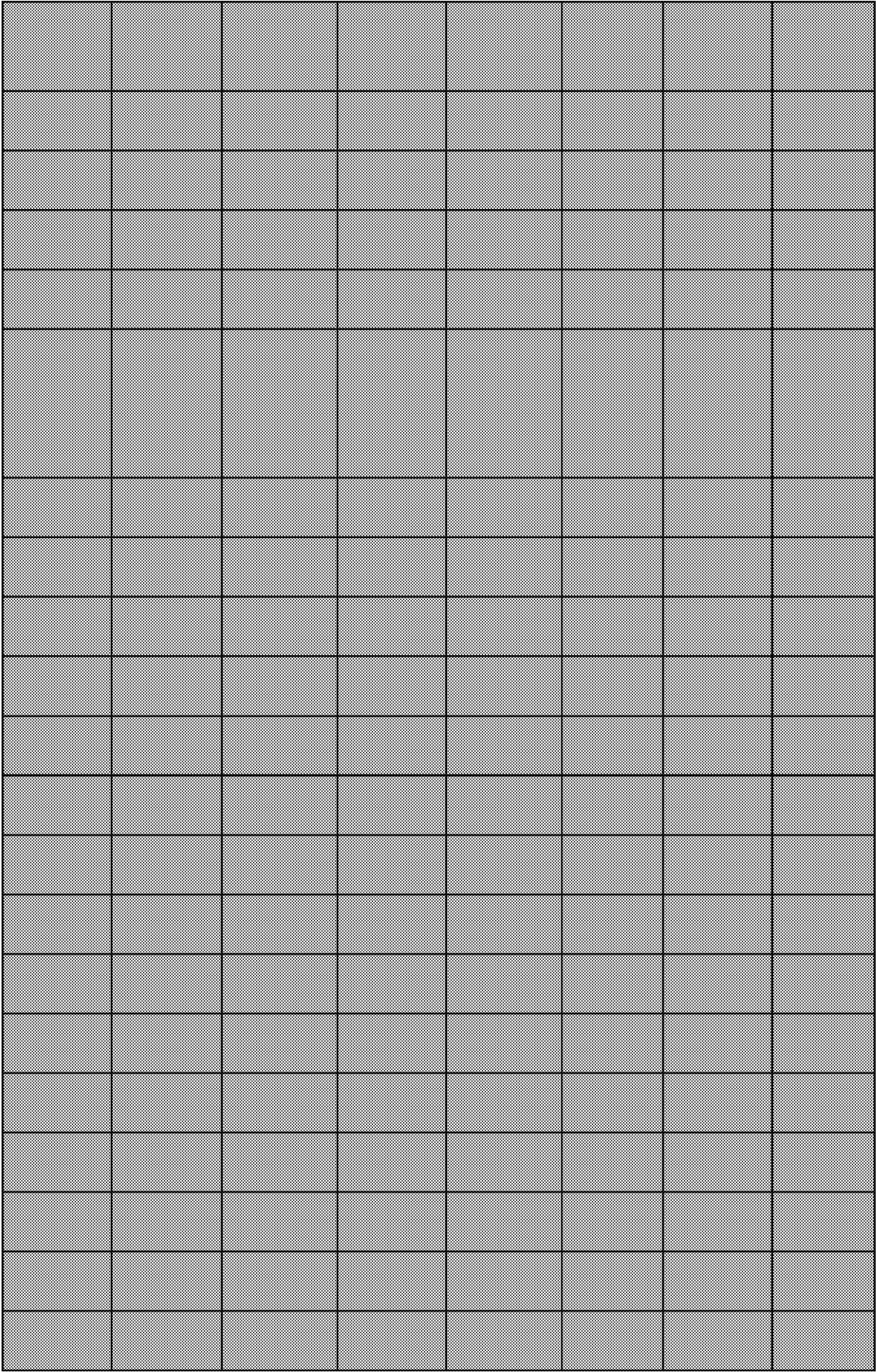
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Biosis copyright: biol abs. rrm experimental model 1 methyl-4-phenyl-1 2 3 6-tetrahydropyridine paraquat dopaminergic
Background: Augmented vascular oxidative stress is central for the development of atherosclerosis, restenosis, transplan
This project will evaluate the properties of a novel glutathione peroxidase enzyme that is considerably enriched in lungs.
This project will evaluate the properties of a novel glutathione peroxidase enzyme that is considerably enriched in lungs.
[unreadable] DESCRIPTION (provided by applicant): In accordance with the goals set forth by NIEHS, this project seeks to
Biosis copyright: biol abs. rrm abstract hydrogen peroxide iron overload paraquat carbon tetrachloride oxidative stress 8
Biosis copyright: biol abs. rrm review food residue analytical method detection chromatography environment
The Prasinophyceae is one of the most ancient groups within the green lineage. <i>O. tauri</i> and <i>O. lucimarinus</i> belong to Pra
BIOSIS COPYRIGHT: BIOL ABS. Studies were performed to test the hypothesis that urethane-induced murine lung tumors
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DESCRIPTION: (Adapted from the applicant's abstract.) Hypotheses are: (a) that the oxidant-induced elevation in cellular
Glutathione (GSH) is an essential component of antioxidant defense. Oxidative stress generated by quinones elevates sy
Glutathione (GSH) is an essential component of antioxidant defense. Oxidative stress generated by quinones elevates sy
The objective of this review is to analyze the role of mitochondrial dysfunction in the pathogenesis of motor defects and
EIS: Epidemiology Information System
PESTAB. Organochlorine and organophosphate pesticides have significantly different acute toxicities (mainly seen after i
Paraquat was administered in the drinking water of mice at 4 dose levels for various periods of time. In the kidney induct
I plan to investigate both endogenous and exogenous means of protecting the lung from the toxic changes associated wi

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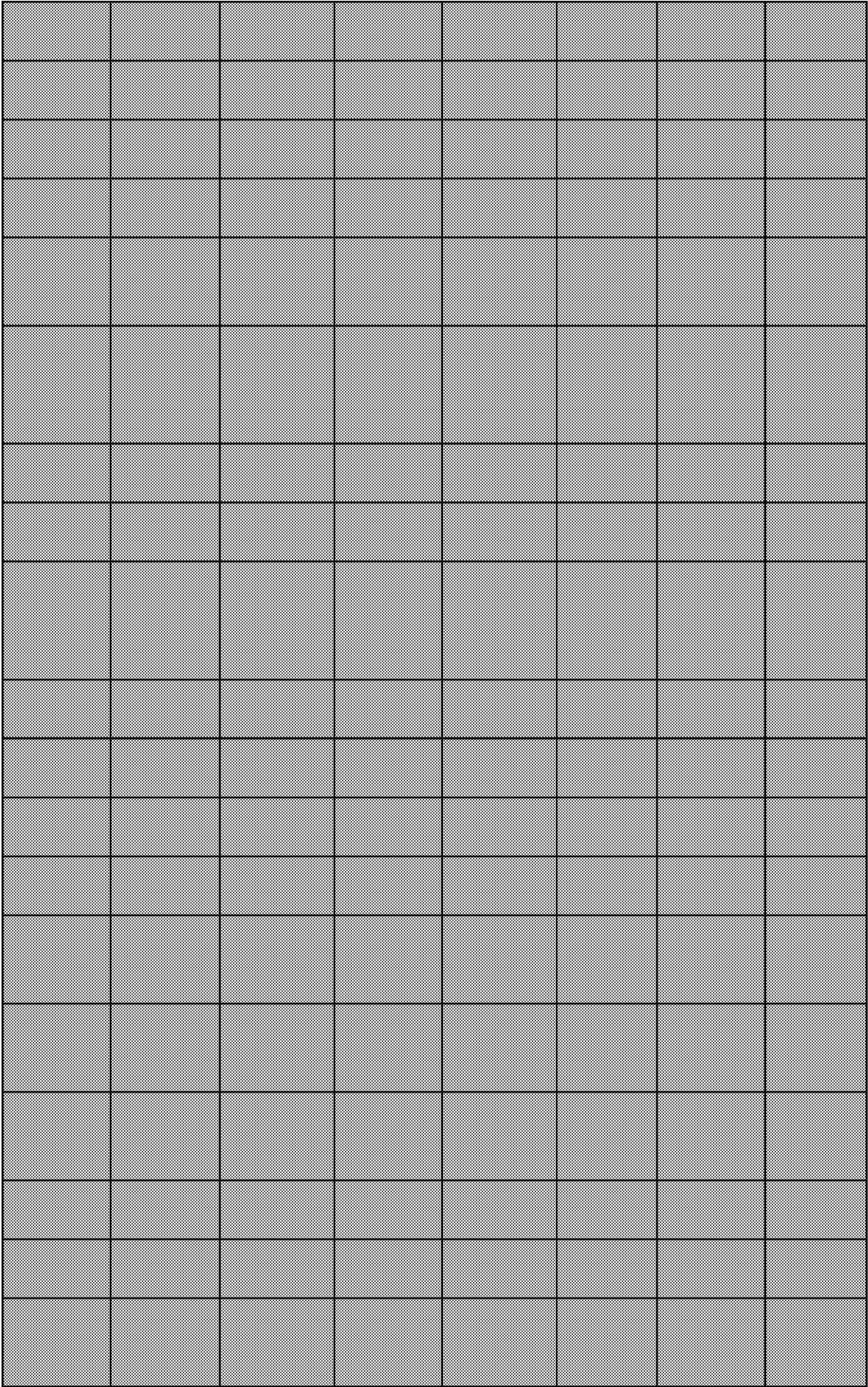
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I plan to investigate both endogenous and exogenous means of protecting the lung from the toxic changes associated with
I plan to investigate both endogenous and exogenous means of protecting the lung from the toxic changes associated with
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The effect of the herbicide paraquat on the freshwater microalga Chlamydomonas eugametos was studied in function of
DESCRIPTION (provided by applicant): Salmonella enterica serovar Typhimurium (S. Typhimurium) is a model enteric pathogen
DESCRIPTION (provided by applicant): Salmonella enterica serovar Typhimurium (S. Typhimurium) is a model enteric pathogen
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Currently, there are over 80,000 chemicals in use and approximately 2000 new chemicals are introduced into use every year
Currently, there are over 80,000 chemicals in use and approximately 2000 new chemicals are introduced into use every year
The electronic properties of dioxygen are discussed with reference to its reactions in biological systems. The involvement of
BIOSIS COPYRIGHT: BIOL ABS. Environmental contamination by agricultural chemicals and industrial waste disposal results in
PESTAB. A 36-yr-old man was admitted to the hospital 3 days after attempting suicide by ingesting paraquat and warfarin
Molecular analysis of a zeta subfamily GST gene from T. hispida involved in ABA and methyl viologen tolerance in transgenic
BIOSIS COPYRIGHT: BIOL ABS. Data on 184 deaths from pesticide poisonings that occurred in Spain from 1991 to 1996 have
Objective: Self poisoning with paraquat has a case fatality ratio (CFR) over 65% in Sri Lanka. To date, the best prognostic factor
Paraquat, a quarternary nitrogen herbicide, is highly toxic for humans and animals via generation of reactive oxygen species

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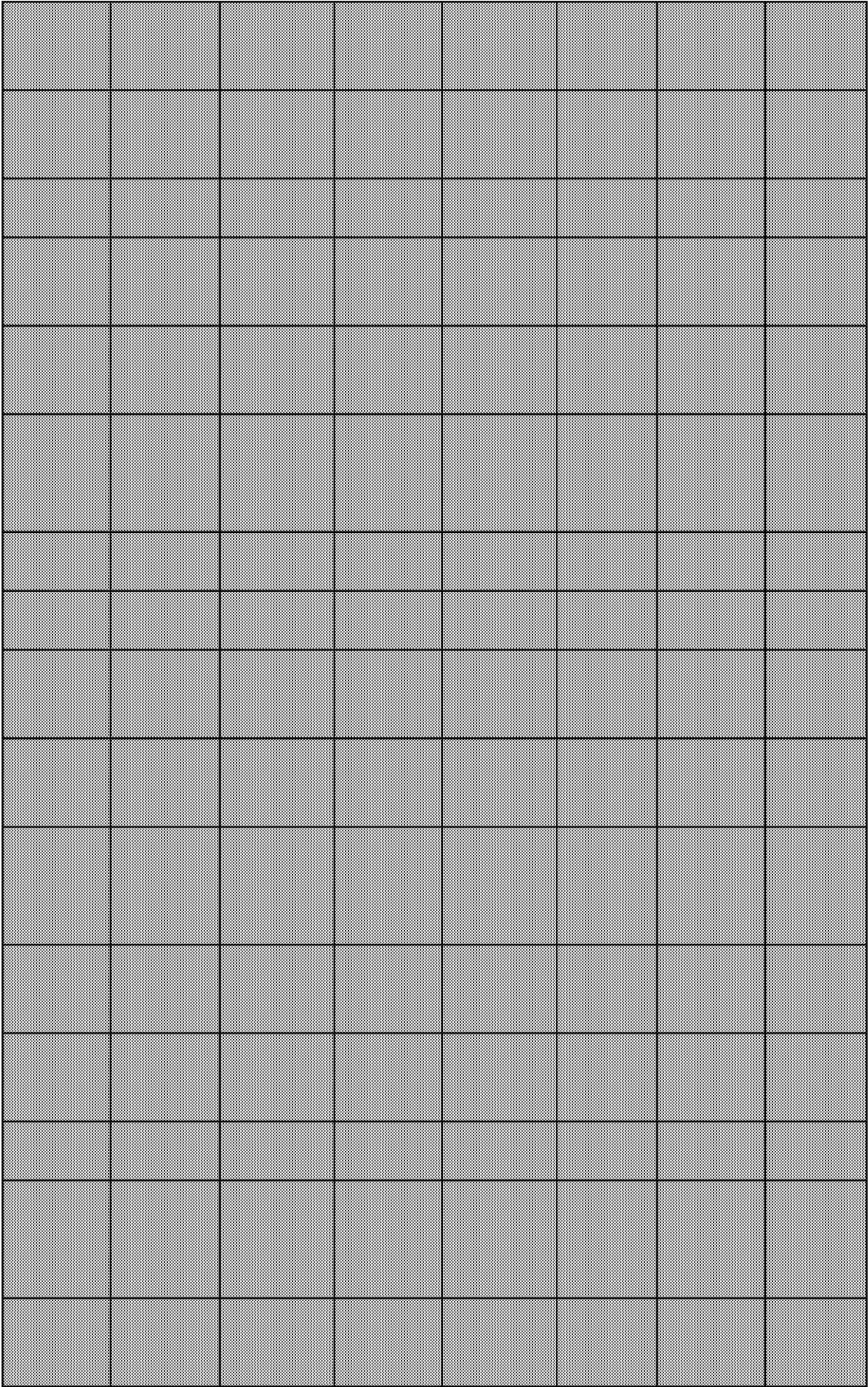
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Background: Increased production of reactive oxygen species (ROS) and loss of endothelial NO bioavailability are key features in endothelial dysfunction.
Purpose: Production of reactive oxygen species (ROS) and loss of endothelial NO bioavailability are key features in endothelial dysfunction.
PESTAB. Mice surviving 24 hr after an LD50 dose of paraquat were evaluated for renal function. In vivo results showed that renal function was significantly impaired in the surviving mice.
Objectives. Paraquat poisoning by ingestion is often fatal. Many studies have investigated treatment modalities and predictors of outcome.
Biosis copyright: biol abs. rrm pea lipid peroxidation chloroplast membrane ferredoxin-dependent nadp reduction mode
Heep copyright: biol abs. rrm abstract glutathione peroxidase
Background: Parkinson's disease (PD) is a progressive neurodegenerative disorder of aging that affects 1% of the population.
BIOSIS COPYRIGHT: BIOL ABS. On three adjacent kibbutzim in the Negev (southern region) of Israel, 13 cases of Parkinson's disease were reported.
The toxicity of paraquat (PQ2+) is attributed to intracellularly formed PQ.+ , O2.- , H2O2 , and secondary ·OH radicals generated by the Fenton-like reaction.
Sponsored by Agency for International Development, Washington, DC. Bureau for Research and Development. The contract number is AID-OAA-77-00000001.
The aim of this study was to investigate the effect of leaves extract of <i>Schizocalyx cuspidatus</i> (A. St.-Hil.) Kainul. & B. Brer.
Paraquat poisoning causes multiple organ injury and high mortality due to severe toxicity and lack of effective treatment.
The choroid plexus (CP), which is the principal site of formation of the cerebrospinal fluid (CSF), controls the exchange of substances between the blood and the CSF.
Biosis copyright: biol abs. rrm book insect mite fertilizer nutrition irrigation pest control disease control harvesting inters
Pulmonary fibrosis is one of the most severe consequences resulting from exposure to paraquat, an herbicide that causes lung damage.

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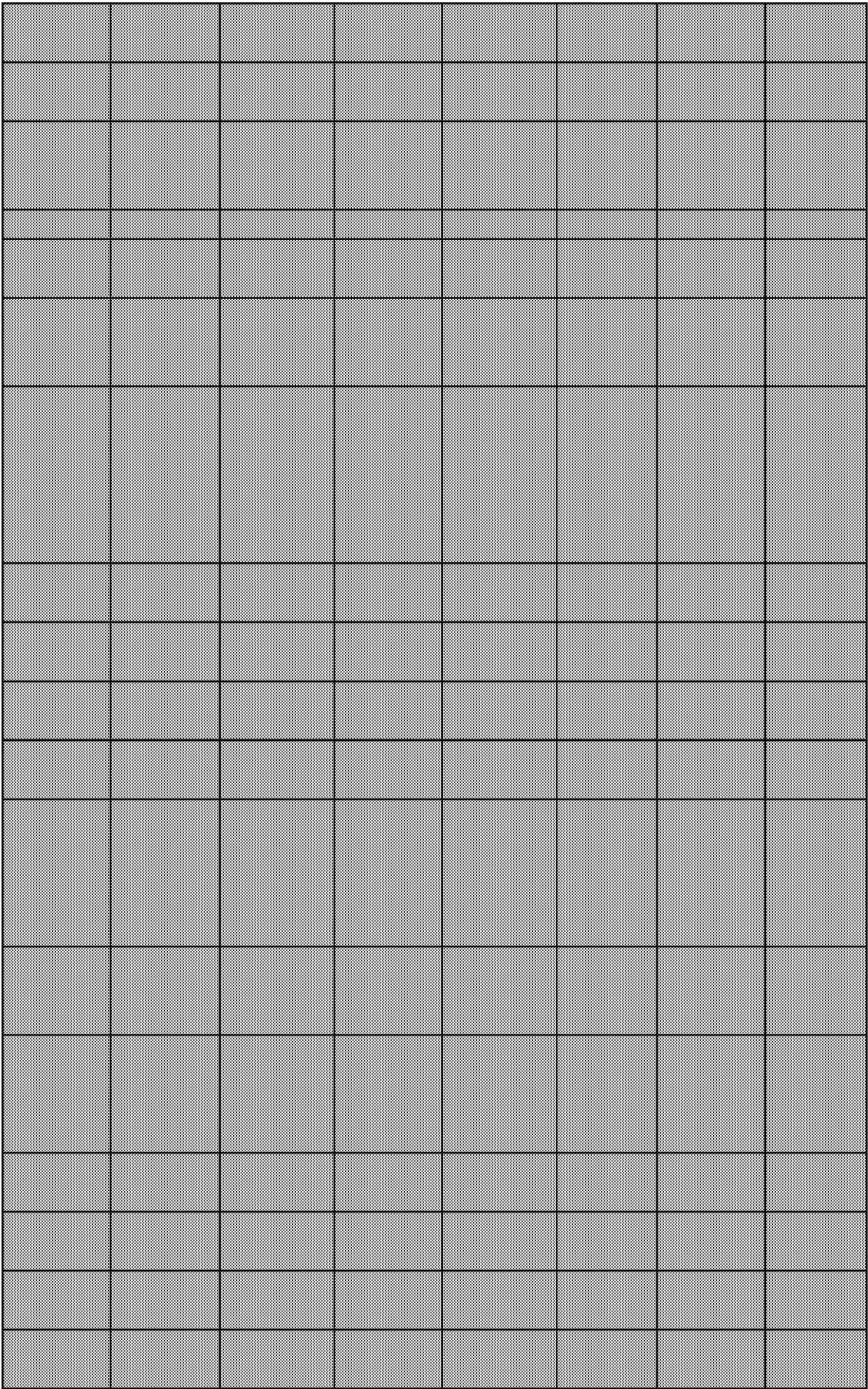
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DESCRIPTION (provided by applicant): The Greenamyre laboratory (University of Pittsburgh) was recently funded to exa
Biosis copyright: biol abs. rrm menadione paraquat oxy-r proteins heat shock proteins manganese superoxide dismutase
IPA COPYRIGHT: ASHP Two fatal cases of paraquat poisoning in which paraquat plasma levels were determined by colorim
PESTAB. An 18-yr-old girl ingested about 40 ml of 20% paraquat in a suicide attempt. She was hospitalized in the intensiv
OBJECTIVE: To explore the intervention effect of losartan on the lung oxidative injury induced by paraquat (PQ). METHOD
BIOSIS COPYRIGHT: BIOL ABS. Objectives Agricultural workers are known to have occupational skin diseases. The prevalence
Biosis copyright: biol abs. rrm rat enterocytes proximal tubule cells alveolar type ii cells basal lateral membrane tert butyl
Background: Oxidative stress is thought to play a significant role in the pathological effects of many neurodegenerative d
Biosis copyright: biol abs. rrm journal article free radical oxygen radical reactive oxygen species superoxide hydrogen per
Regulatory agencies believe that a search for potential adverse cardiopulmonary effects of test articles in the ageing pop
Biosis copyright: biol abs. rrm book chapter meeting paper european commission directive 91-414 annex vi pesticide risk
Biosis copyright: biol abs. rrm abstract 1 methyl-4-phenyl-1,2,3,6-tetrahydropyridine 1 methyl-4-phenylpyridine herbicide
Biosis copyright: biol abs. rrm suppression by nitric oxide synthase inhibitors of paraquat-induced shaking behavior in rat
DESCRIPTION (provided by applicant): Detrimental effects of aging might be due in part to loss of juvenile protective fact
DESCRIPTION (provided by applicant): Detrimental effects of aging might be due in part to loss of juvenile protective fact
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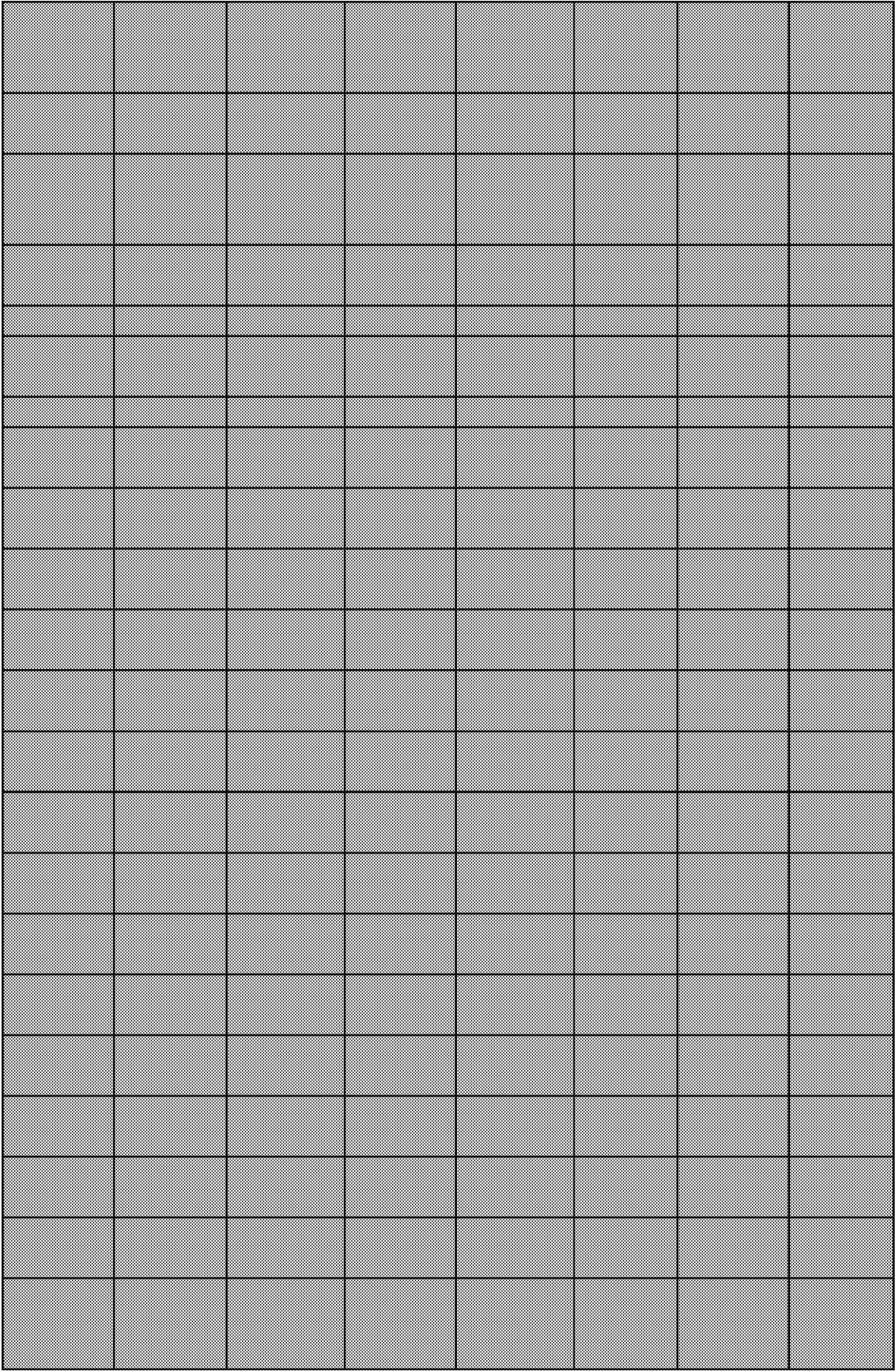


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Introduction: Paraquat (PQ) is an herbicide known to cause lung toxicity partly through induction of apoptosis. DISC (death
BIOSIS COPYRIGHT: BIOL ABS. The contemporary state of the determination of pesticide residues and some of their trans
Biosis copyright: biol abs. rrm abstract paraquat salicylates barbiturates benzodiazepines opiates thallium colorimetry en
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A survey of police and medical records in a province of Fiji indicated high rates of suicide for Indian women under 30 and
Objective: According to the progression of study about environmental factors and Parkinson disease in recent year, to ex
PESTAB. Organophosphorus insecticides irreversibly inhibit acetylcholinesterase by phosphorylation. The level of tissue e
PESTAB The lethal dietary toxicities of 89 pesticidal chemicals to young bobwhites, Japanese quail, ring-necked pheasant
[unreadable] DESCRIPTION (provided by principal investigator): [unreadable] [unreadable] Background Toxin-mediated c
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DESCRIPTION (provided by principal investigator): Background Toxin-mediated oxidative stress (OS) is a trigger that ultim
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DESCRIPTION (provided by applicant): Aging is accompanied by a general decline of physiological function and significant
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PESTAB. Case studies are presented in which five patients developed acute lung damage after ingestion of paraquat. Lun
Introduction: Bluish vomiting is a rare form of poisoning presentation in an emergency department (ED). Consequently, p
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PESTAB. Studies were carried out to evaluate composting as a means of disposing of cotton gin trash, with emphasis on t
PESTAB. Paraquat and diquat (40 mg/kg) were administered to rats via iv injection. Within 6 hours of paraquat injection a
One hallmark of cancer cells is their ability to switch their metabolism from oxidative phosphorylation to glycolysis. This i

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First reports of anthropogenic environmental contaminants causing adverse effects in wildlife began to accumulate during the 1960s and 1970s.

HEEP COPYRIGHT: BIOL ABS. Results were reported for the embryotoxicity of 42 environmental contaminants applied ex

The use of paraquat as a herbicide is becoming more extensive with the increasing population of no tillage agriculture, in

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In the presence of oxidants many enzymatic systems show reduced activity. The calcium pump of the endoplasmic reticulum is a good example. It is inhibited by hydrogen peroxide and other oxidants. This leads to an increase in the concentration of calcium in the cytosol, which can lead to the activation of other enzymes and the release of calcium from the endoplasmic reticulum.

In the presence of oxidants many enzymatic systems show reduced activity. The calcium pump of the endoplasmic reticulum is a good example of this. It is a Ca^{2+} -ATPase that pumps Ca^{2+} from the cytosol into the ER lumen. In the presence of oxidants, the pump is inactivated, leading to an increase in cytosolic Ca^{2+} levels. This can lead to the activation of other enzymes and the release of Ca^{2+} from the ER lumen, further exacerbating the problem.

In the presence of oxidants many enzymatic systems show reduced activity. The calcium pump of the endoplasmic reticulum is a good example.

The major goal of this project was to examine the roles of glial cells in inflammation-related neurodegeneration. We have

PESTAB. Renal physiology and pathophysiology are discussed. Specific nephrotoxins, including heavy metals (mercury, ch

Biosis copyright: biol abs. rrm abstract paraquat isopropyl-beta-d-thiogalactoside oxidative stress oxygen toxicity

Rapid accumulation of reactive oxygen species (ROS) and their toxic reaction products with lipids and proteins significant

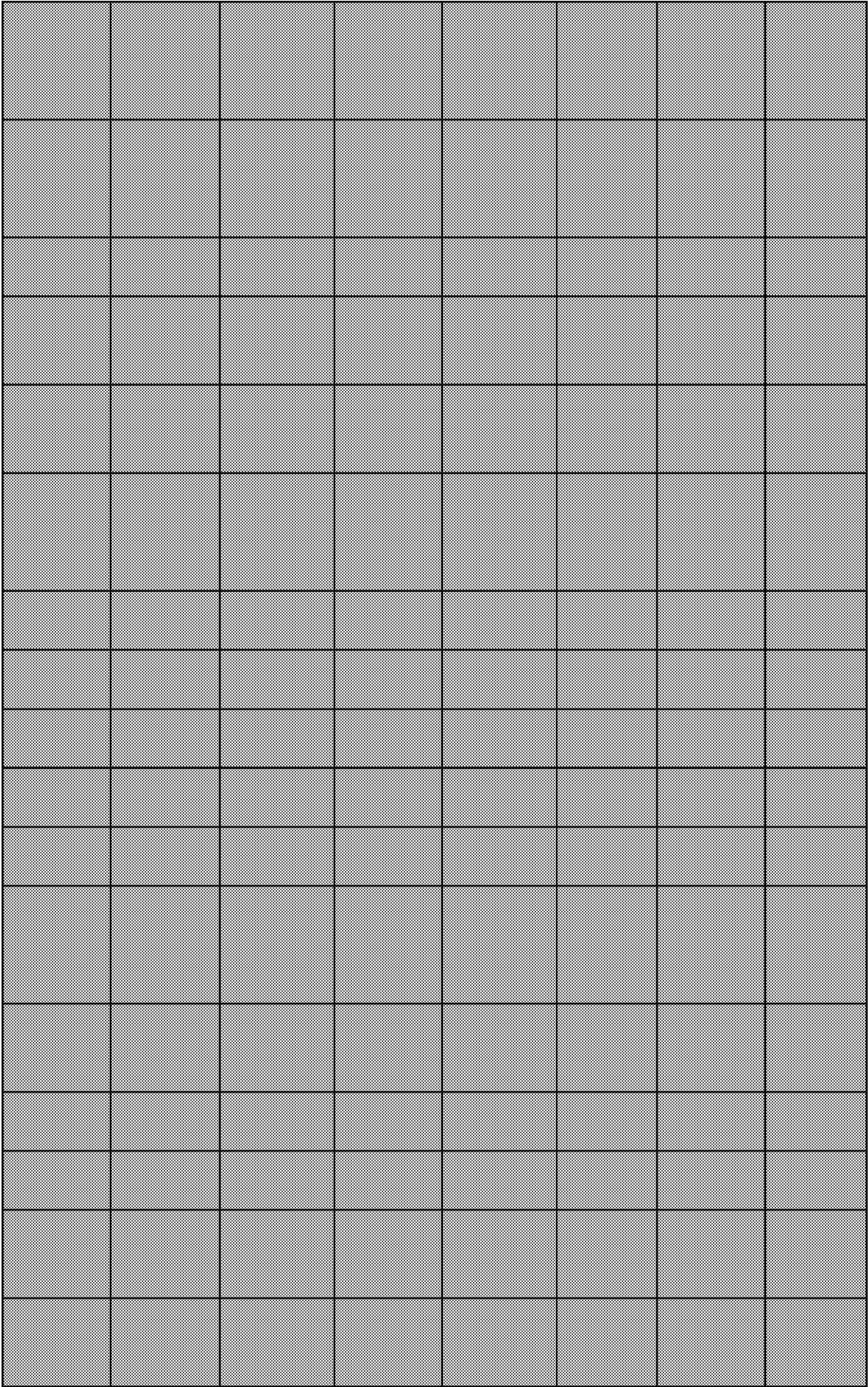
This paper reviews the experience in the United Kingdom in 1977 with 68 cases of paraquat poisoning, all intentional and

BIOSIS COPYRIGHT: BIOL ABS. 1 The effects of 2,2',2''-tripyridine on the nicotinic acetylcholine (ACh) receptor channels w

Paraquat (PQ) exposure could cause pulmonary fibrosis. The aim of this study was to investigate the protective effect of

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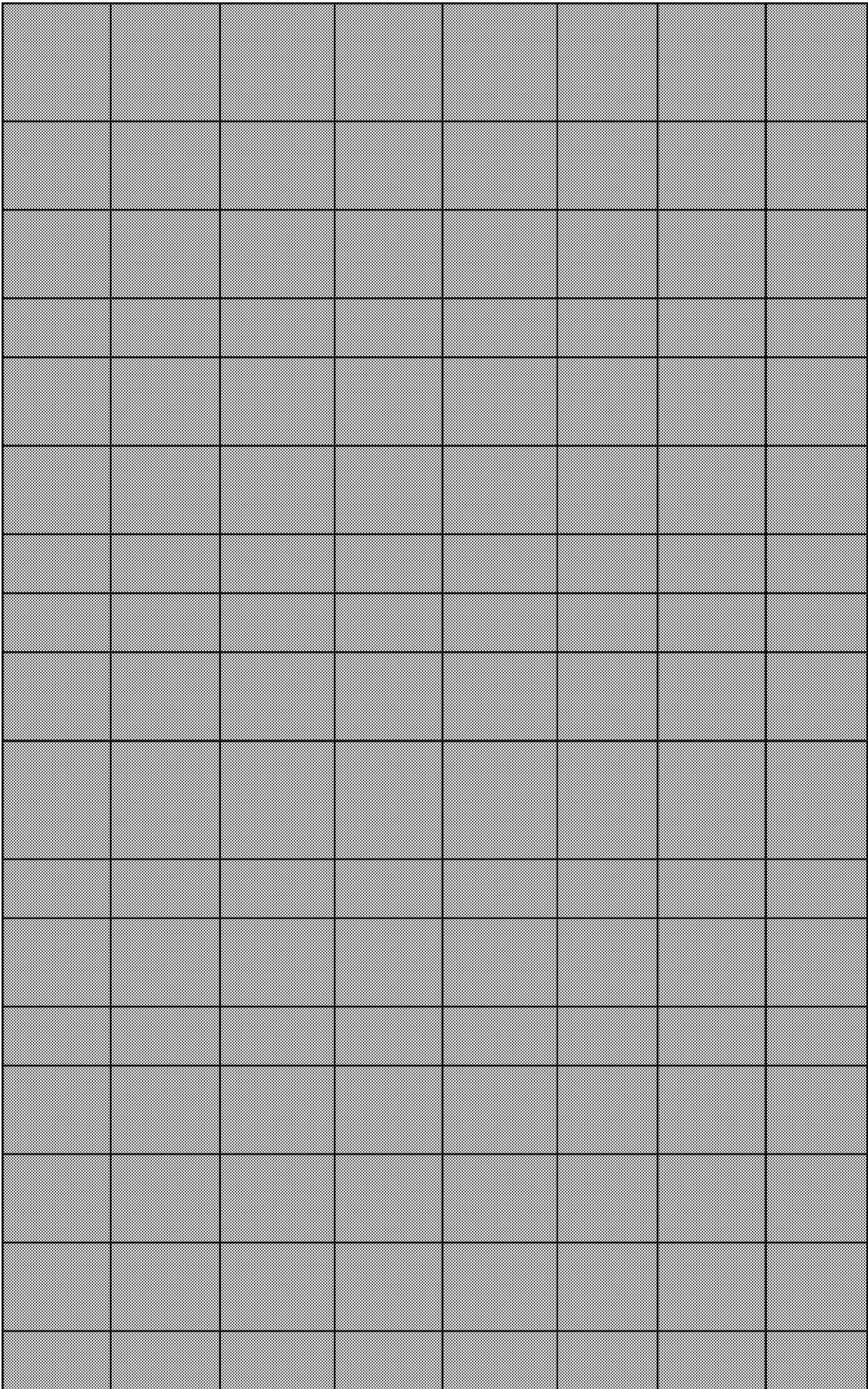
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Biosis copyright: biol abs. rrm abstract human gene down's syndrome paraquat toxicity
Background: Plasma membrane Ca ²⁺ ATPase is a transport protein in the plasma membrane of cells and helps in removal of intracellular calcium.
The sequential changes of paraquat-induced pulmonary damage were studied using high-resolution computed tomography.
Autophagy is a catabolic process by the lysosomal degradation of own components in cells. Molecular mechanisms involved in this process are still unclear.
Biosis copyright: biol abs. rrm pesticide high-risk group socioeconomic status therapeutic intervention seasonality
Bacillus subtilis was found to possess one detectable superoxide dismutase (Sod) in both vegetative cells and spores. The activity of Sod was higher in vegetative cells than in spores.
The synthesis of enantiomers R and S of erdosteine, a derivative of homocysteine- γ -thiolactone, and the NMR spectra of these enantiomers were studied.
Free radicals and their sequelae figure prominently in cellular and organismal aging. Generated primarily in mitochondria, they are thought to be involved in the pathogenesis of many age-related diseases.
A preliminary study was conducted to determine whether bacterial endotoxin (LPS) could enhance or protect mice against the toxicity of paraquat.
Biosis copyright: biol abs. rrm abstract cotton tobacco maize paraquat superoxide dismutase oxygen scavenger messenger
BIOSIS COPYRIGHT: BIOL ABS. The present study was aimed at monitoring tissue materials for their binding ability towards paraquat.
An investigation is being conducted of those enzymes of detoxication that act on amines. Specifically, two isoenzymes of paraoxonase have been identified.
Background: Mutations in the RNA binding proteins TDP-43 and FUS have been associated with familial and sporadic forms of amyotrophic lateral sclerosis.
Background: Increased mitochondrial production of reactive oxygen species (ROS) has been implicated in a number of neurodegenerative diseases.
Parkinson's disease (PD) is a devastating and progressive movement disorder characterized by symptoms of muscles rigidity, tremor, and bradykinesia.
Anautogenous female mosquitoes take blood meals for egg production. Digestion of hemoglobins is accompanied with hemolysis and release of heme.

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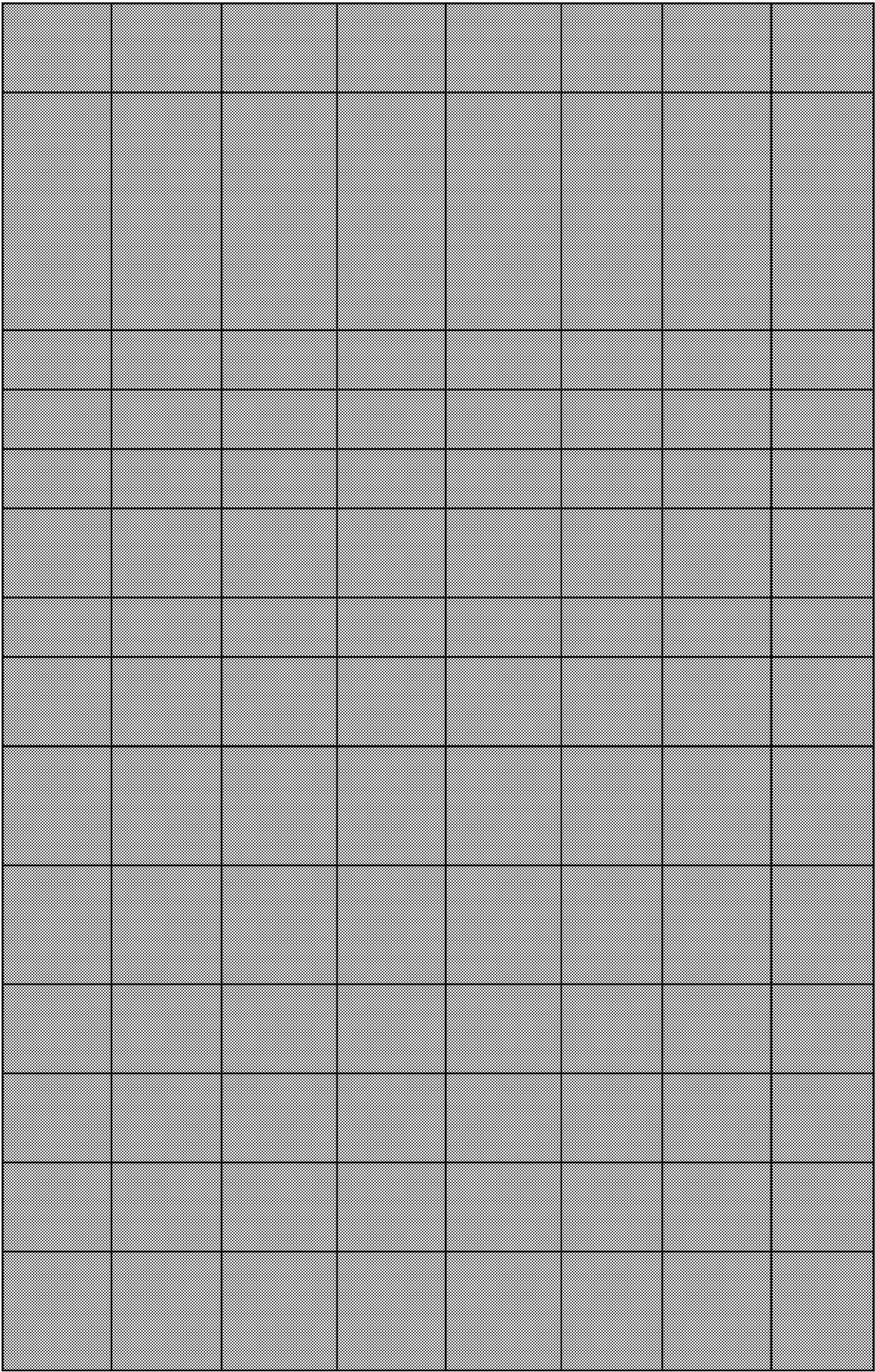
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The mosquito gut ecosystem harbors a complex microbial community, which varies across life stages. Mosquitoes take b
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Project SummaryThere are at least two types of Parkinson's disease (PD), familial and sporadic (sPD). By far, sPDaccounts
DESCRIPTION (provided by applicant): There are at least two types of Parkinson's disease (PD), familial and sporadic (sPD
BIOSIS COPYRIGHT: BIOL ABS. Glutathione (GSH) has multiple functions in detoxication and its depletion has been associ
The mutations of BRAF are described in about 50% of melanoma tumors with 90% of these mutations occurring at a singl
Rat alveolar macrophages (AM) were obtained by lavage and were evaluated for luminol-enhanced chemiluminescence.
Plants have evolved a wide range of mechanisms to cope with biotic and abiotic stresses. Upon adverse conditions, comp
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Introduction: Diquat (DQ) and paraquat (PQ) are potent rsin-fast herbicides, which are being used worldwide. Both are b
Manganese(III) meso-tetrakis(4-carboxypheny)porphyrin (MnTBAP) is a readily available and widely used agent to scaver
Various pesticides in the form of mixtures must be used to keep tobacco crops pest-free. Recent studies have shown a lir
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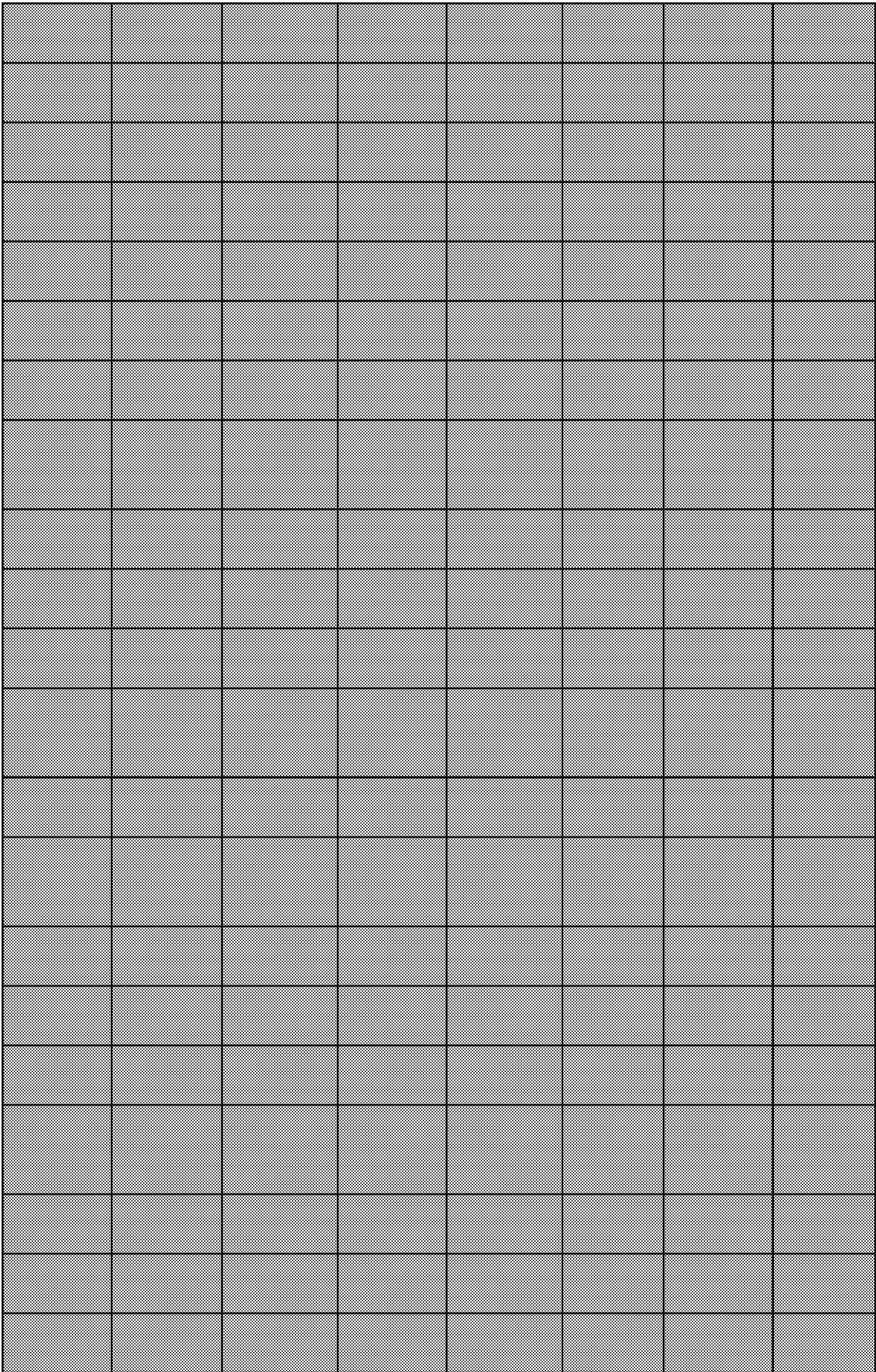
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PESTAB. Despite the recent banning of TEPP, DDT, BHC, and parathion, there has been no substantial decrease in the num
The exogenously added cadaverine is effective in protecting <i>Vibrio vulnificus</i> from methyl viologen (MV)-induced supero
BIOSIS COPYRIGHT: BIOL ABS. Aminotriazole(AT)-induced changes in growth, hydrogen peroxide content and activities of
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DESCRIPTION (provided by applicant): Loss-of-function mutations in DJ-1 were recently identified in an autosomal recess
Vigna Radiata, or mung bean, is commonly consumed in Asia and, in recent years, has become increasingly popular in we
The participation of lipid peroxidation products in the mechanisms of paraquat toxicity in Ehrlich ascites tumor (EAT) cell
PESTAB Toxicological studies on herbicides and clinical observations concerning acute, subacute, and chronic poisonings
Objective: N-acetylcysteine (NAC) has a well established role as the drug of choice in the treatment of paracetamol pois
Chronic obstructive pulmonary disease (COPD) is characterized by progressive airflow limitation, loss of the alveolar unit
Pesticide use is inseparable part of food production. The efficacy of modern agriculture is quite dependent on the chemi
HEEP COPYRIGHT: BIOL ABS. Papers are presented examining the formation and fate, synthesis, extraction and methods
HEEP COPYRIGHT: BIOL ABS. The hypothesis that the formation of mixed disulfides between protein SH and glutathione r
Exposure to certain classes of industrial toxicants has been shown to result in oxidative damage. The herbicide paraquat
This project will investigate the mechanism of paraquat cytotoxicity. Despite a consensus that oxygen and the redox prop
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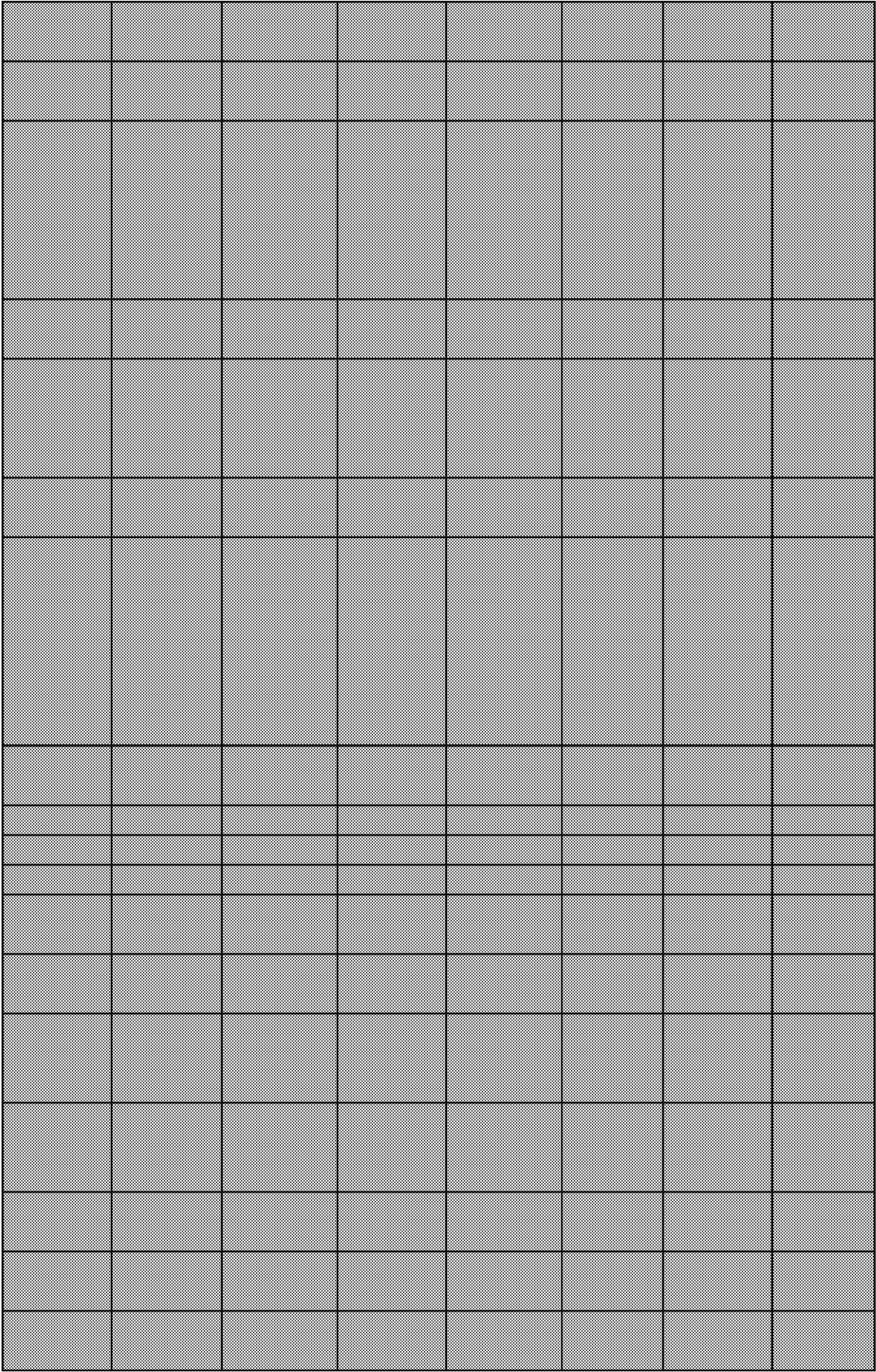
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This project will investigate the mechanism of paraquat cytotoxicity. Despite a consensus that oxygen and the redox prop
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The fetal and neonatal toxicology (with special reference to teratogenic effects) of organochlorides, cholinesterase (9001
Pancreatic islet transplantation is a promising strategy for diabetic patients. Unfortunately, host's immune cells rapidly re
Isoflavone phytoalexins and isoflavone reductase gene in the rice has not been identified and characterized. We characte
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We examined the antioxidant and anti-inflammatory components isolated from Moutan radicus cortex. The antioxidant a
PESTAB The herbicide paraquat, which is a member of the bipyridyl family of herbicides, has been responsible for at least
BIOSIS COPYRIGHT: BIOL ABS. The Clara cells on the terminal bronchioles have some important roles as follows; 1) the pr
HEEP COPYRIGHT: BIOL ABS. Manufacture of synthetic organic pesticides, their possible toxicities USA are and developm
BIOSIS COPYRIGHT: BIOL ABS. Since the discovery of metallothionein in 1957, it has been accepted that the primary roles
One new way of breeding crops for stress and disease resistance is based on in vitro selection of callus tissues on agar me
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It has been reported that mineralocorticoid receptor (MR) antagonists attenuate the renal injury in salt-sensitive hypert
PESTAB. A 41-yr-old man was forcibly administered 100 ml of a 24% preparation of the herbicide paraquat dichloride. Th
PESTAB. A 13-year old boy who lived on a fruit farm was ill for a few days with sore throat and vomiting, and remained u
Leptin is secreted from white adipose tissue and acts on the hypothalamus to control energy metabolism by increasing e

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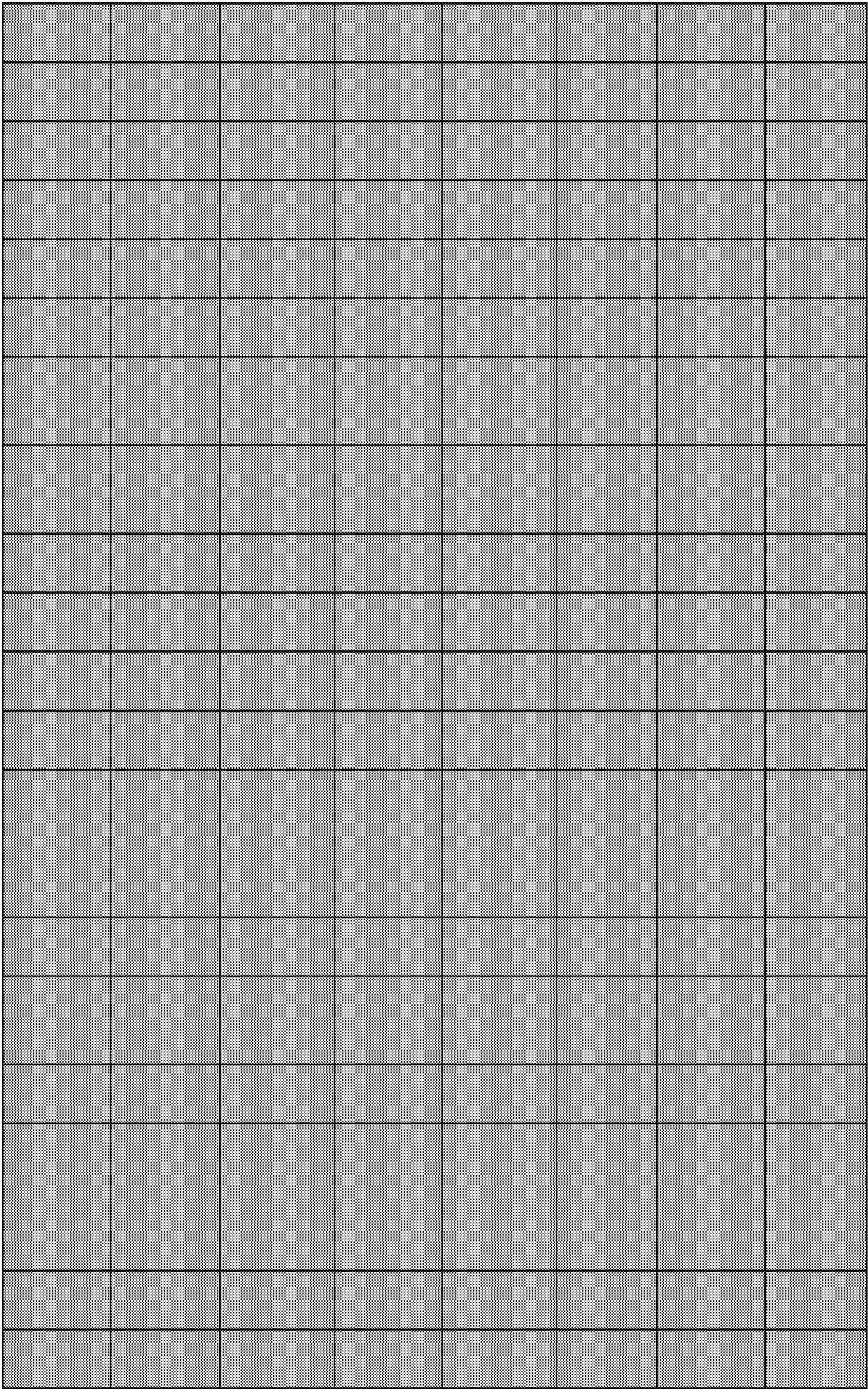
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David Evan Krantz. Environmental toxin interactions with genetic risks for Parkinson's disease. RePORTER Database National Institutes of Health. 2009. #volume#:#pages#

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upon which all subsequent behavior is based. Understanding this early neurobehavioral development is of vital importar
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1. Physiological ecologists require techniques for controlled oxidative challenges in live animals to facilitate the study of c
PESTAB A 27-year-old man who had taken paraquat in a suicide attempt was treated initially by gastric lavage. In the day
The pqi-5 gene, producing a probable membrane protein of unknown function, has been reported to be a member of the
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In order to improve the stress tolerance of grapevine, transgenic plants were produced and regenerated from the anther
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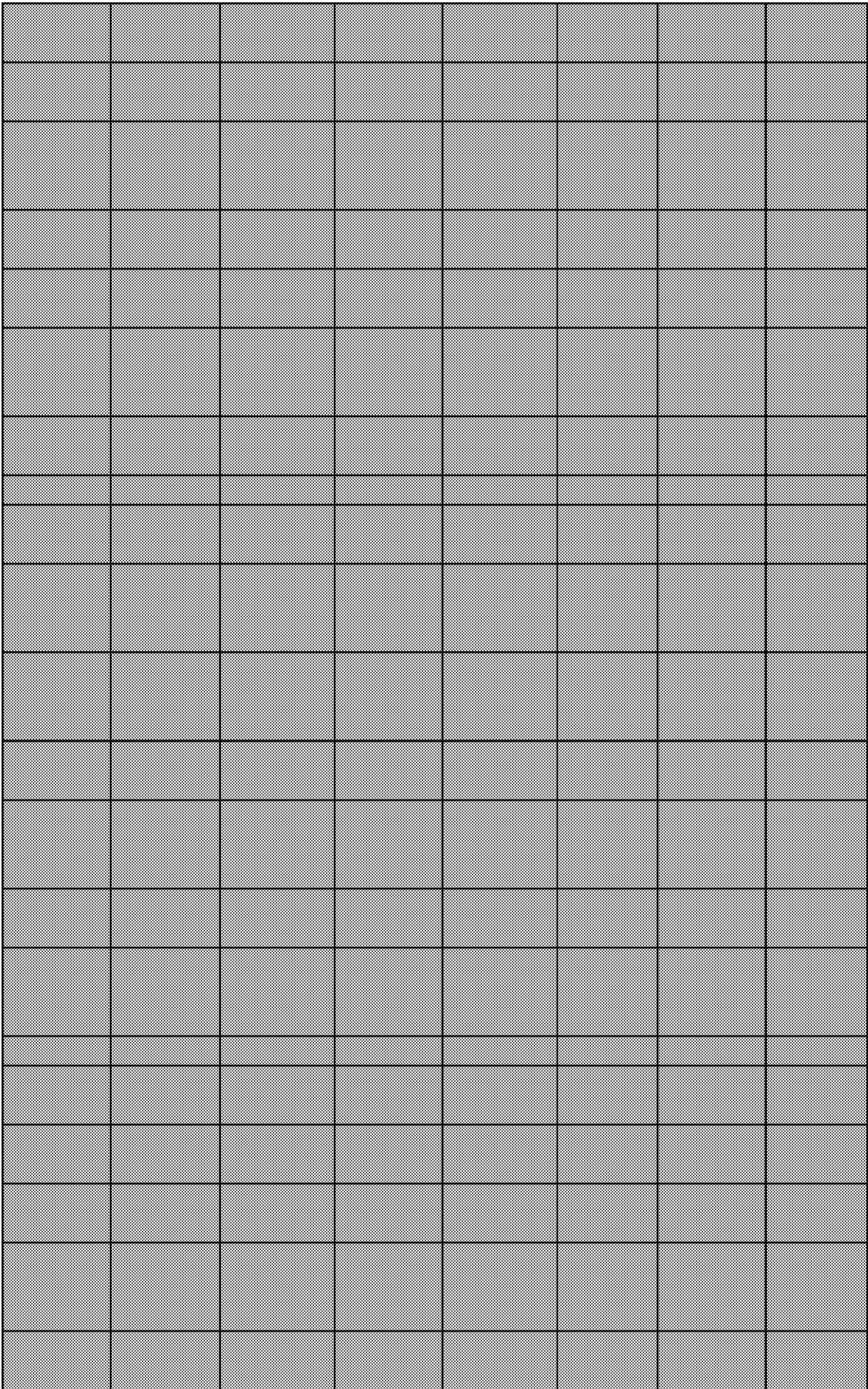
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DESCRIPTION (provided by applicant): Both genes and environmental toxins may act as risk factors for Parkinson's disease
DESCRIPTION (provided by applicant): Both genes and environmental toxins may act as risk factors for Parkinson's disease
The damaging effect of oxidative stress inductors: methyl viologen, benzyl viologen, cumene hydroperoxide, H ₂ O ₂ , menadione
Oxidative damage contributes to aging and age-associated disease but little is known about the response to oxidative stress
It has been reported that ABCG2 transporter may export glutathione out of the cell so cells overexpressing this transporter are more resistant to oxidative stress
BIOSIS COPYRIGHT: BIOL ABS. The role of the YAP1 transcription factor in the response of <i>Saccharomyces cerevisiae</i> cells to oxidative stress
Paraquat is commonly used herbicide by farmers in North West Rajasthan. Despite its easy availability, poisoning of its use is increasing
PESTAB. In spite of the similarity in chemical structure, paraquat has a more selective toxicity to the lung than diquat. The mechanism of toxicity is not clear
<i>Streptomyces clavuligerus</i> produces a clinically important β -lactamase inhibitor, clavulanic acid. When several of the selected strains were grown in the presence of various antibiotics, the production of clavulanic acid was significantly increased
Biosis copyright: biol abs. rrm literature review organic chemicals inorganic chemicals analytical methods drinking water
We examined the stress of chronic (7 days) isoproterenol (ISO) stimulation 60mg/kg/day in 3-5 month AC5 Tg mice and VLDL receptor null mice
Biochemical and morphological changes of 10 cases of drug-induced liver injury and 7 cases of chemical-induced liver injury
BIOSIS COPYRIGHT: BIOL ABS. Six million children live in poverty in America's inner cities. These children are at high risk of environmental health problems
Biosis copyright: biol abs. rrm literature review biomonitoring environmental contamination methods models metals organic chemicals
The bisquaternary ammonium compound paraquat has been shown to accumulate in melanin-containing tissues and in cells with high levels of superoxide
DESCRIPTION (provided by applicant): Neurodegenerative diseases (ND) such as: Alzheimer's, Parkinson's and Amyotrophic Lateral Sclerosis
DESCRIPTION (provided by applicant): Neurodegenerative diseases (ND) such as: Alzheimer's, Parkinson's and Amyotrophic Lateral Sclerosis
Objective: The prevalence of sedative-hypnotic abuse is increasing in Taiwan. Intentional overdose of sedative-hypnotics is a leading cause of death
HEEP COPYRIGHT: BIOL ABS. Neurotoxins (NTXs) isolated from elapid and sea snake venoms are all basic proteins of low molecular weight



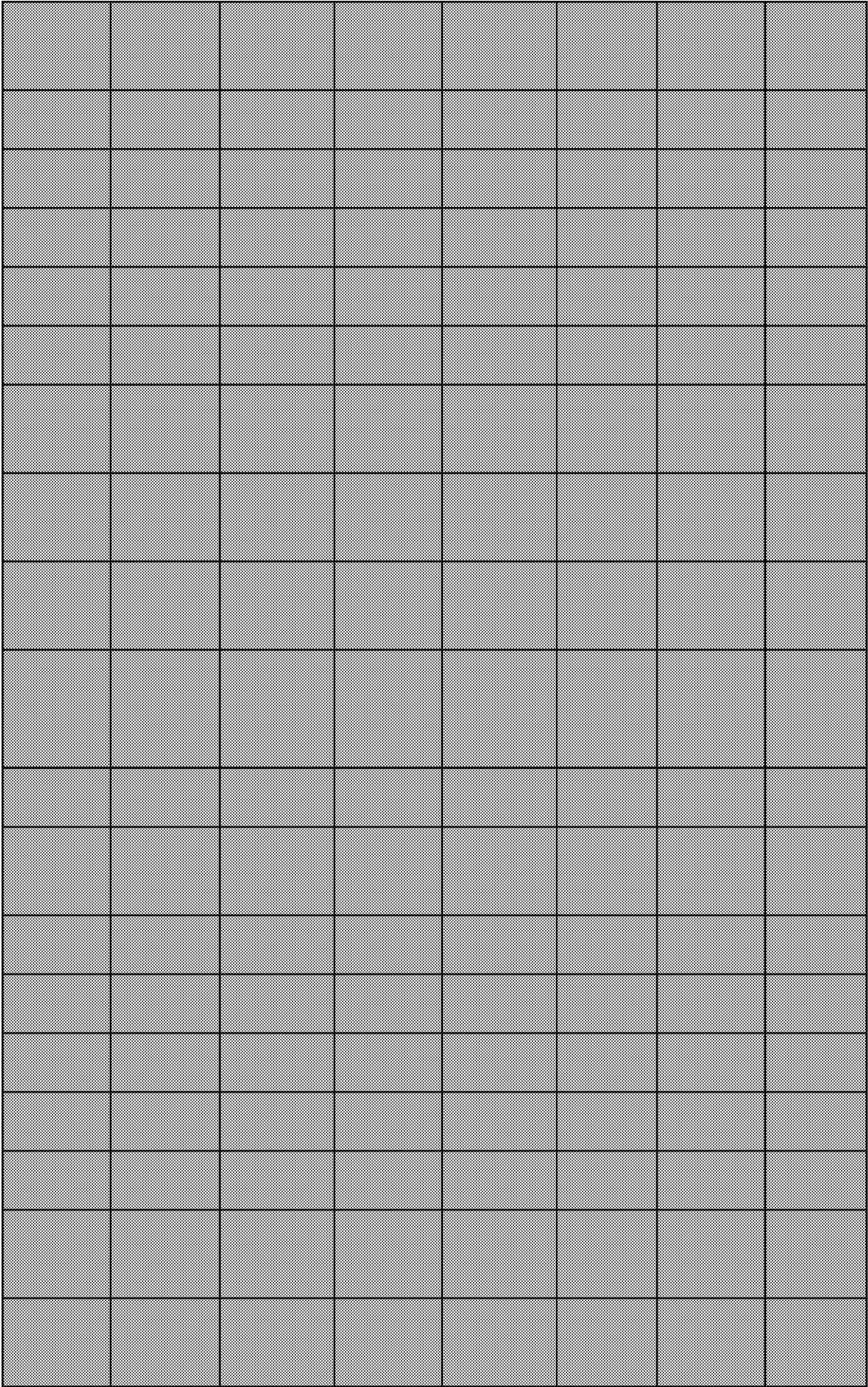
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Previous phytochemical studies of <i>Vigna angularis</i> (Ohwi) Ohwi & Ohashi (Leguminosae) have shown the presence of sap
Previous studies indicate that aerobic respiratory metabolism in the <i>Escherichia coli</i> diet of <i>Caenorhabditis elegans</i> is imp
BIOSIS COPYRIGHT: BIOL ABS. Food safety or sanitation are terms broadly applicable to procedures designed to ensure th
Three different catalase cDNA clones (CaCat1, CaCat2, and CaCat3) were isolated from hot pepper (<i>Capsicum annuum</i> L.)
Background: Paraquat, a widely used herbicide, is extremely toxic, causing multiple organ failure in humans. Paraquat es
Background: The aging process may be induced, at least in part, by reactive oxygen species(ROS). It has been thought tha
Background: Oxidative stress is a common cause of various liver diseases. The Wnt/?-catenin signaling pathway is a critic
Background & Aims: Obesity is characterised by systemic oxidative stress (OS) resulting from chronically high levels of re
Obesity is a worldwide epidemic, with two thirds of the UK population either overweight or obese (body mass index (BM
Amyotrophic lateral sclerosis (ALS) is a progressive neurodegenerative disease caused by the degeneration of motor neu
BIOSIS COPYRIGHT: BIOL ABS. This meeting contains abstracts of 126 papers (plenary lectures, oral presentations, and po
The aim of this study is to evaluate the protective effects of chrysophanol (CH) against paraquat (PQ)-induced pulmonary
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DESCRIPTION (provided by applicant): Parkinson's disease (PD) is the most common neurodegenerative movement disor
Background: Although reactive oxygen species (ROS) mediate normal myogenic responses (MRs) of afferent arterioles (A
Multidrug and toxin extrusion 1 (MATE1/solute carrier 47A1) mediates cellular transport of a variety of structurally diver

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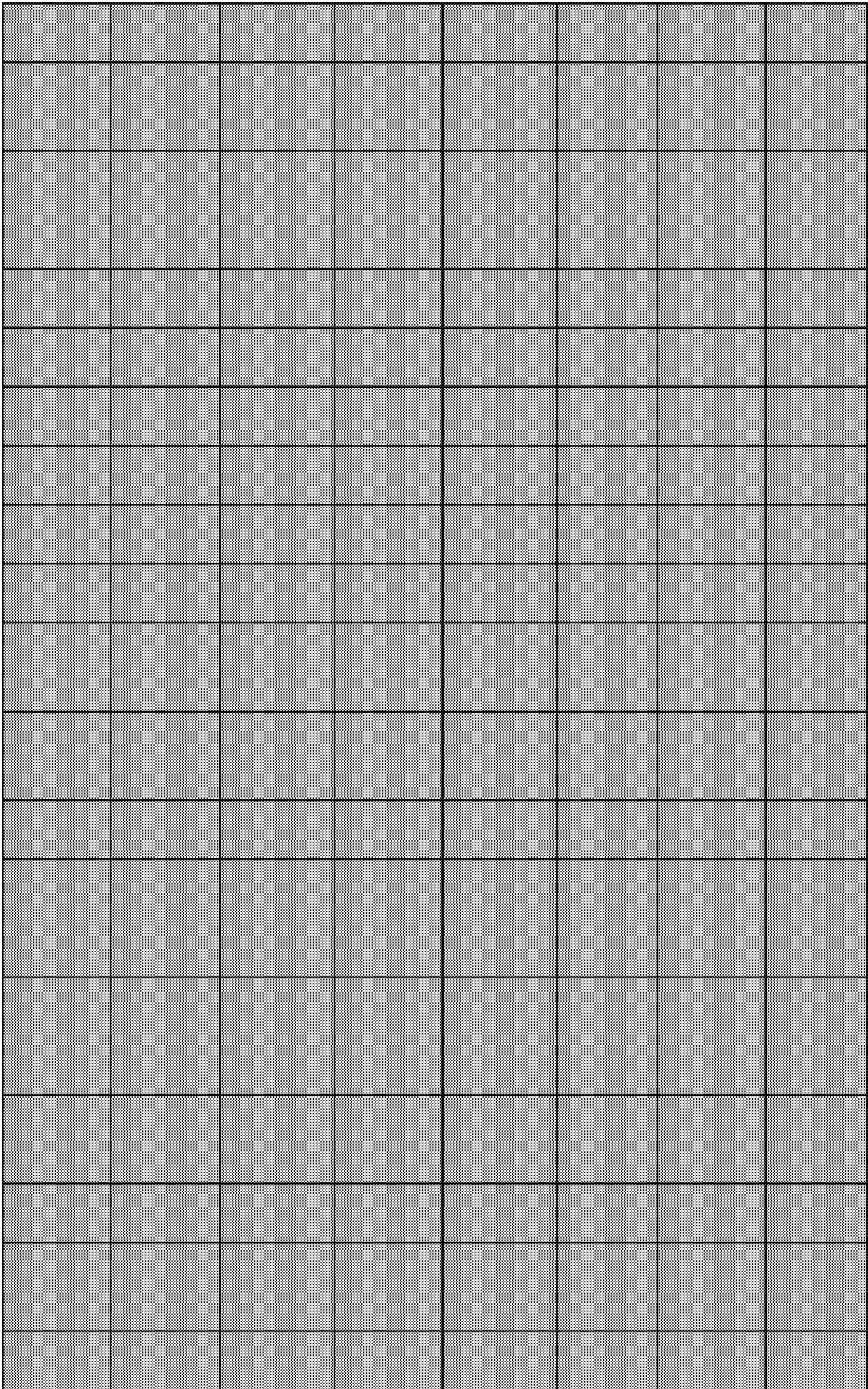
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Electroactive biopolymer was synthesized by incorporation of ferrocene moieties onto poly(glutamic acid) polymer chain
Superoxide dismutases (Sods) play very important roles in preventing oxidative damages in aerobic organisms. The nitro
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The lipid-soluble antioxidant alpha-tocopherol (vitamin E) is the principal cellular membrane protectant against injury ca
Background: Ilex paraguariensis, popularly known as yerbamate, is a native specie of tree in South America, used to prep
Background Paraquat (dipyridylum herbicide), used commonly in Taiwan, may cause severe pulmonary injury and lung f
Objective: To investigate the protective effects of 5-hydroxy-1-methylhyantoin (HMH) on paraquat (PQ)-induced nephrot
Biosis copyright: biol abs. rrm microtus-spp paraquat carbofuran ecological assessment
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Prdx6 plays an important role in lung anti-oxidant defense, presumably due to its unique ability to reduce phospholipid h
Metacaspases play critical roles in developmentally regulated and environmentally induced programmed cell death in pl
Objective: Paraquat intoxication can induce neurotoxicity. The purpose of this study was to identify the influence of acute
Aim: To investigate the effect of paraquat-induced retinal injury on Bcl-2 and Bax protein expression in SD rats and discus

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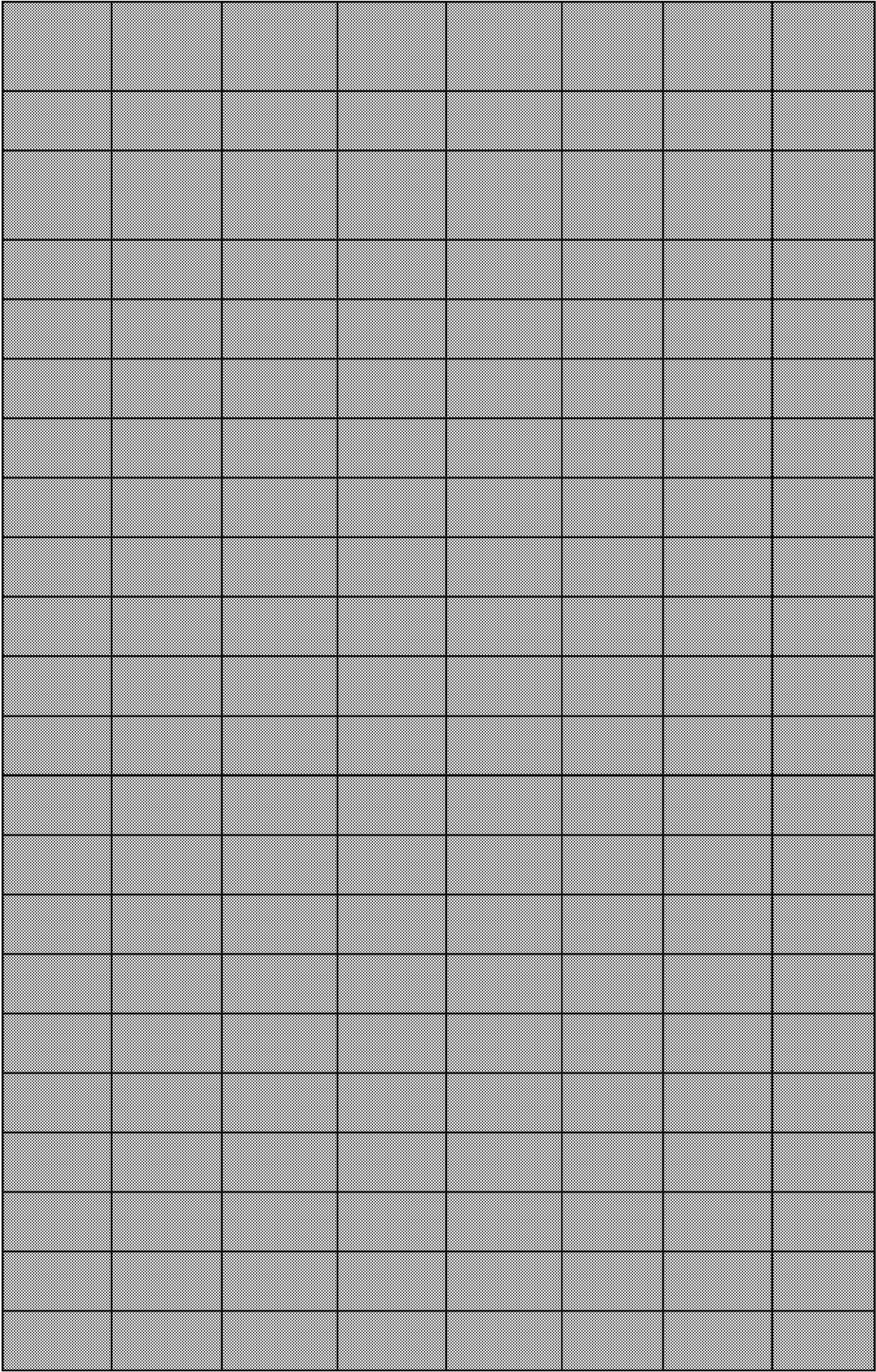
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? DESCRIPTION (provided by applicant): Many neurodegenerative diseases are known to be associated with inappropriate
? DESCRIPTION (provided by applicant): Parkinson disease (PD) is a progressive neurodegenerative disorder characterized
Along with mannose and sucrose, olive produces large amounts of mannitol in photosynthesizing leaves. Leaf mannitol s
Research in the major genetic model systems has revealed a strong and consistent association between dietary restriction
The Animal and Biostatistics Core will work directly with Project Leaders to design, plan, monitor and interpret all animal
The insulin like-growth factor (IGF) system is well recognized to control multiple processes including growth, differentiati
Research in the major genetic model systems has revealed a strong and consistent association between dietary restriction
DESCRIPTION (provided by applicant): Role of Longevity Regulatory Pathways in Age-dependent Macro-molecular Damag
The Animal and Biostatistics Core will work directly with Project Leaders to design, plan, monitor and interpret all animal
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Research in the major genetic model systems has revealed a strong and consistent association between dietary restriction
The Animal and Biostatistics Core will work directly with Project Leaders to design, plan, monitor and interpret all animal
Reactive oxygen species (ROS) damage different biomolecules - glutathione, lipids, proteins, DNA - which are used as bio
Normal oxidative metabolism leads to the generation of various redox forms of molecular[unreadable] oxygen, termed r
PESTAB. Various methods which are used for the determination of paraquat are reviewed. For the determination of para

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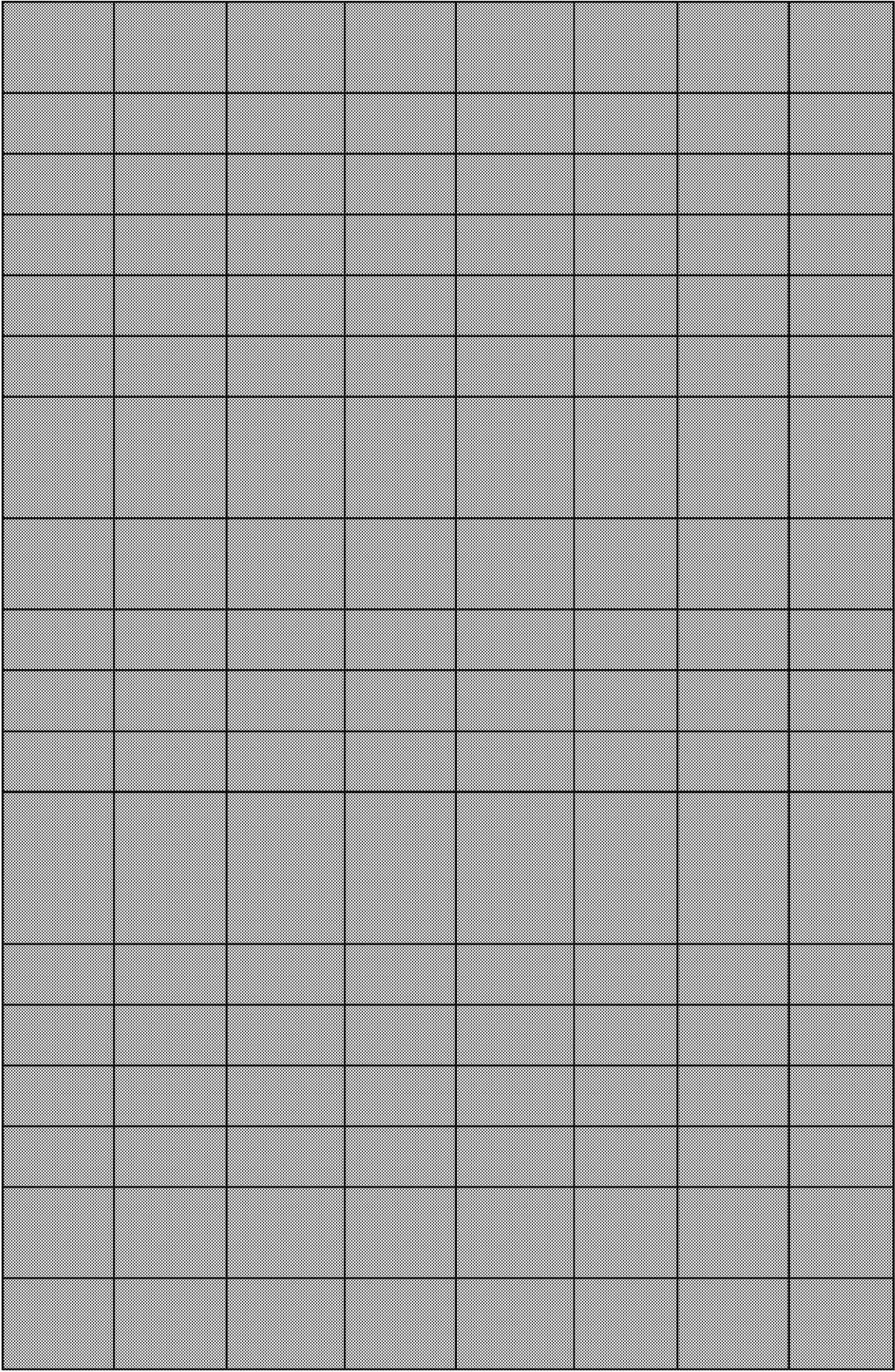
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The in vitro effect of the non selective contact herbicide paraquat (PQ) on primary cultured baboon kidney proximal tubu
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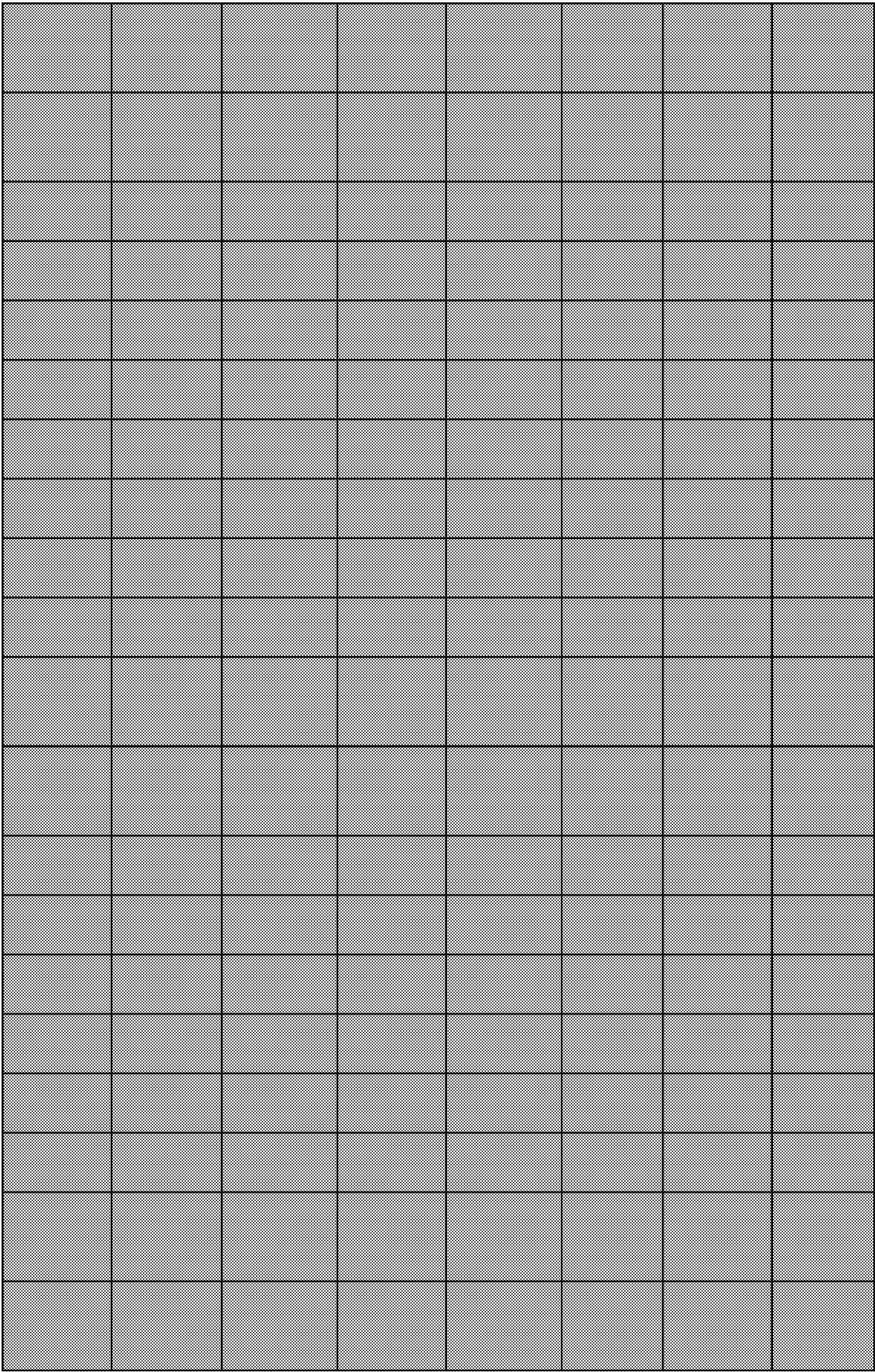
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Anti oxidative efficacy of a 4-amino-3-(4-chlorobenzyl)-1H-1,2,4-triazole-5(4H)-thione (C) is evaluated against electron be
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The mechanisms by which oxidative stress impacts mitochondrial energetics remain controversial, despite the clear role
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The broad goal of the alveolar tissueogenesis project is to establish the model of bleomycin induced acute lung injury in C5
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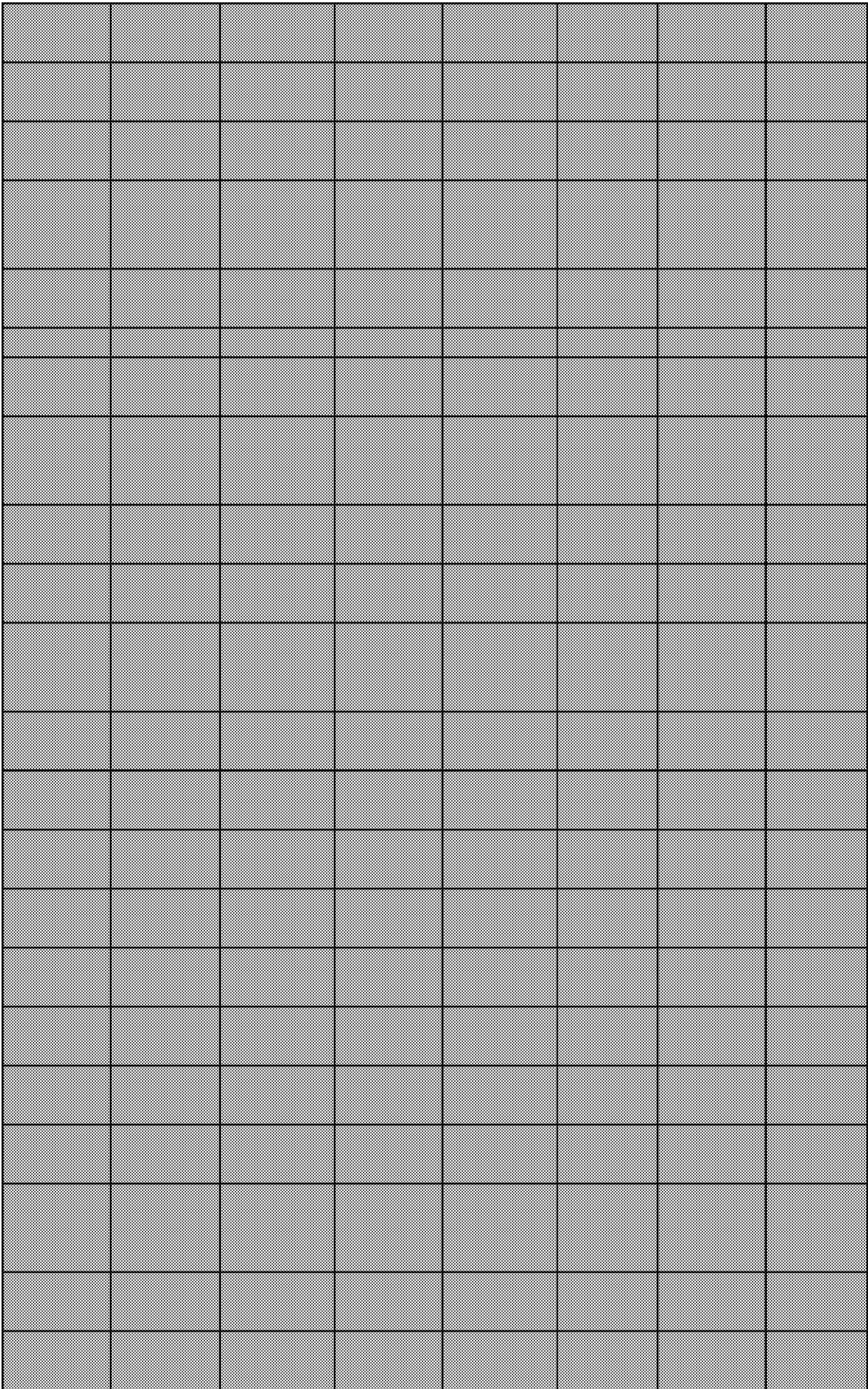
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The activities of the enzymes superoxide dismutase (SOD) and catalase were determined in maize leaves treated with O ₃
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On November 13, 1998, the National Institute for Occupational Safety and Health (NIOSH) received a request for a health
Purpose: Poisonings remains an offending cause of death in the ICU. Our purpose is to discuss the circumstances, aetiolo BIOSIS COPYRIGHT: BIOL ABS. The persistence of DDT (1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane) and its metabolites
This article provides an overview of the evidence assessing protection against lipid peroxidation by melatonin (MEL). Sev
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Adverse environmental conditions affect plant growth. We studied the response of the wheat root apical meristem (RAM
Background: Nowadays, more and more herbal drugs of traditional Chinese medicine (TCM) rely on cultivation rather than
Free radicals can be produced from both endogenous and exogenous factors in the cells. Due to the presence of stay und
The purpose of the proposed study is to investigate the mechanisms by which paraquat's prooxidant toxicity can be prev
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Rob is regarded as a constitutively expressed protein, although little is known about how rob gene is regulated. We show
Organic cation transporters (OCTs) serve as uptake transporters of numerous endo- and xenobiotics. They have been in t
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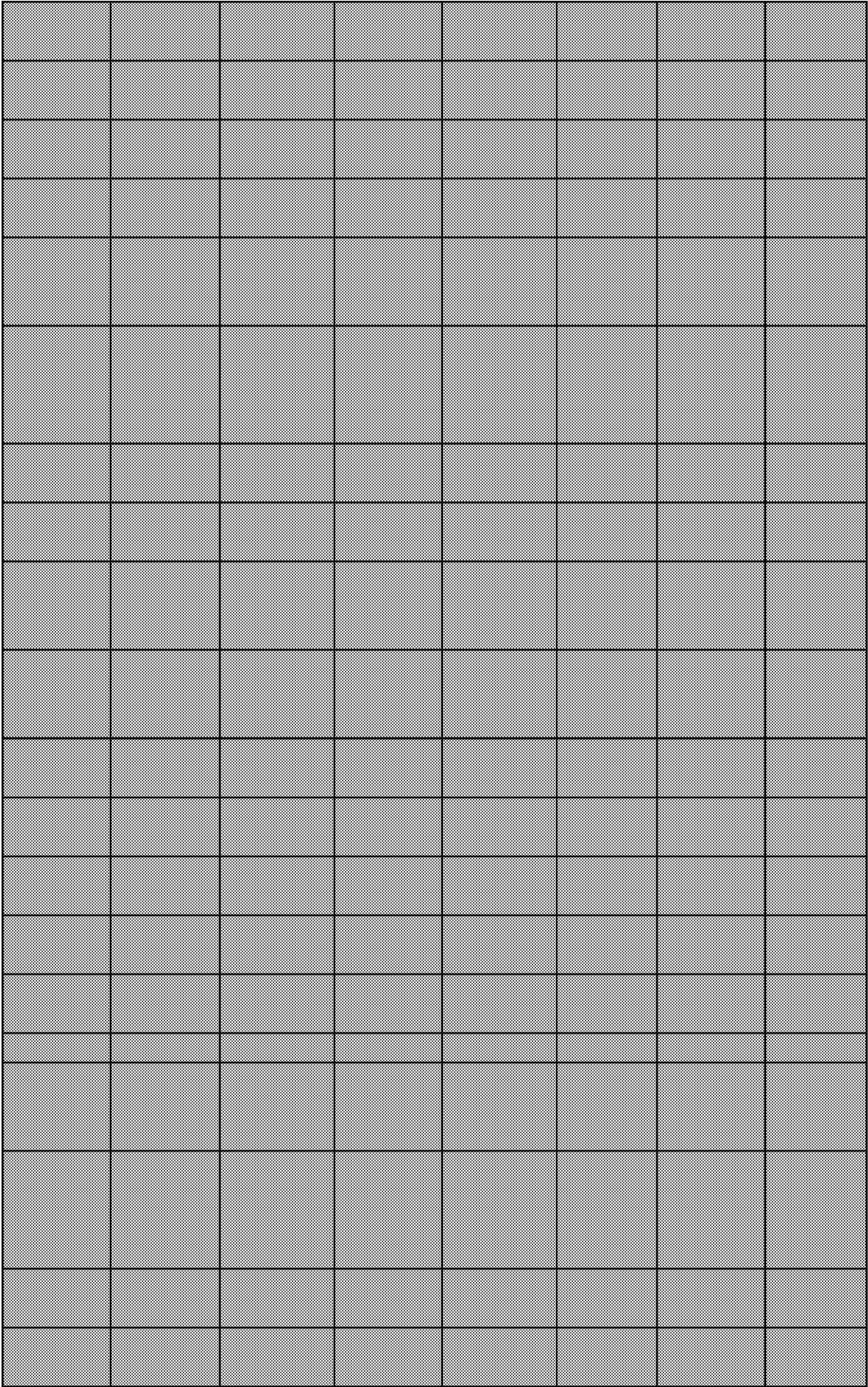
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Antioxidant intervention is a potential therapeutic approach to mitigate the oxidative stress component of various huma
Metabolic activation is a required step in the tissue injuries produced by many drugs, industrial chemicals, and environm
Paraquat (PQ), one of the most commonly used herbicides worldwide, is highly toxic to humans and exposure can result
BIOSIS COPYRIGHT: BIOL ABS. Aporrectodea caliginosa is a common earthworm in the farmlands of Benghazi, Libya. Expe
HEEP COPYRIGHT: BIOL ABS. Paraquat inhibits the in vitro hepatic microsomal metabolism of ethylmorphine and aniline.
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6. PROJECT SUMMARY / ABSTRACT Parkinson's disease (PD) derives from the confluence of advancing age, inherited susc
DESCRIPTION (provided by applicant): Amyotrophic lateral sclerosis (ALS) is a fatal neurodegenerative disease, character
Pesticide toxicology data is reviewed. Pesticide exposure injuries include acute poisoning, skin and upper respiratory trac
The ?-carboline alkaloids found in medical plants and in a variety of foods, beverages and cigarette smoke have a range c
Anacardium microcarpum Ducke (Anacardiaceae) is a native species of Brazil used in folk medicine for the treatment of s
Reactive oxygen species (ROS) related signaling is important for stress adaptation, although prolonged oxidative stress m

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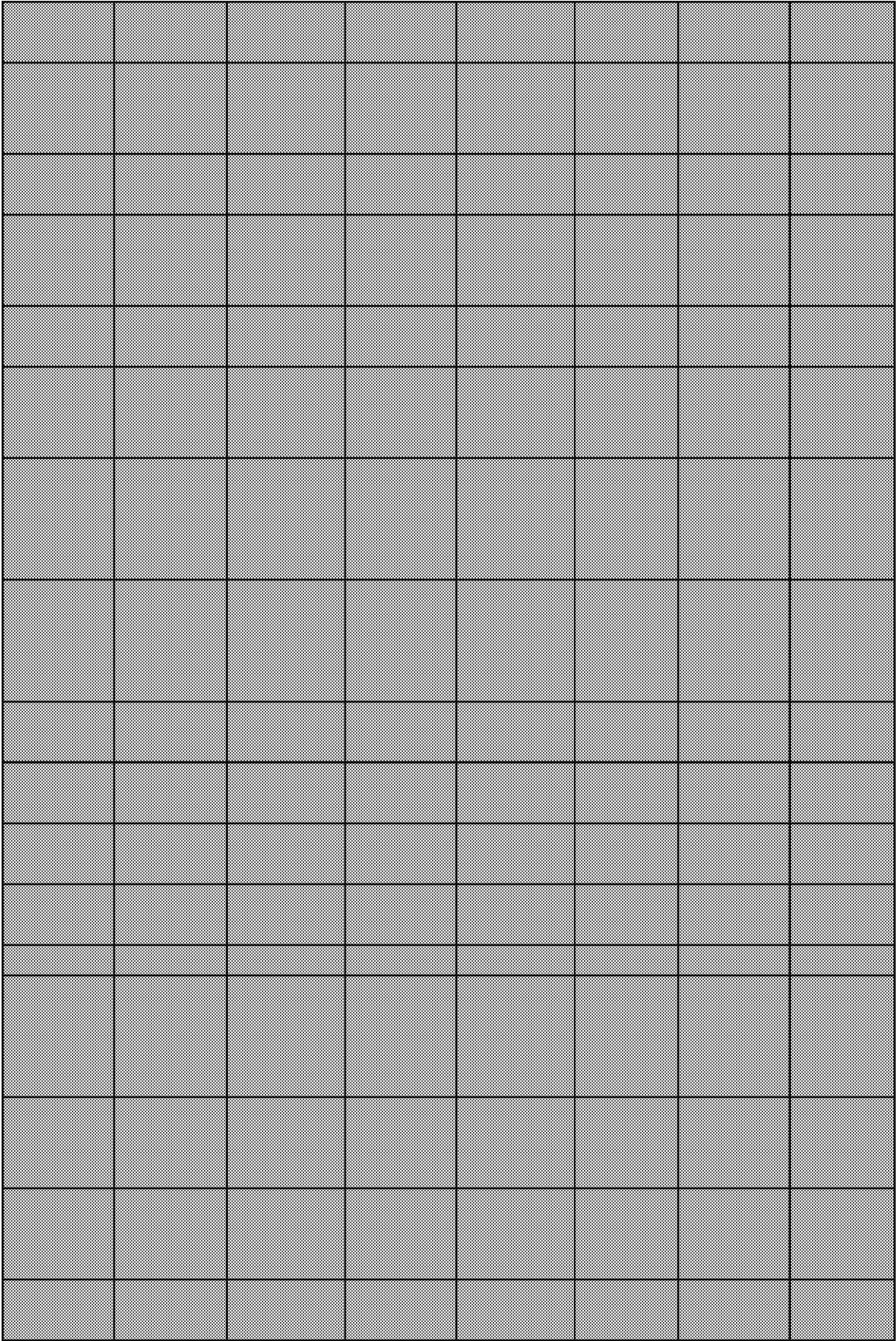
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Hepatitis B virus (HBV) is strongly associated with the development of hepatocellular carcinoma (HCC). Among the HBV v
The acute toxicity of paraquat (4685147) was studied in Beagle-dogs injected subcutaneously with 1, 3, 5, or 7mg/kg para
A fatal case of acute paraquat poisoning was reported with extremely high tissue levels. The present case is a 55 year old
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The effect of paraquat in different concentrations on three fish species, carp (<i>Cyprinus carpio</i> L.), silver carp (<i>Hypophthal</i>
Biosis copyright: biol abs. rrm copper sulfate paraquat water pollution agricultural runoff stormwater runoff agriculture f
PESTAB. Neurological symptoms in acute and chronic poisoning are reviewed, and case reports are presented. Insecticide
In view of the weaknesses of the epidemiologic studies examining the potential association between paraquat exposure
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The aim of the present study was the establishment of "Pathway Arrays" (RT2 Profiler PCR Arrays, SABiosciences) with w
<i>Salmonella enterica</i> serovar Typhimurium has at least nine multidrug efflux pumps. Among these, AcrAB is constitutively
Introduction: El Salvador has an unusually high mortality from end-stage renal disease (ESRD) that is not associated with

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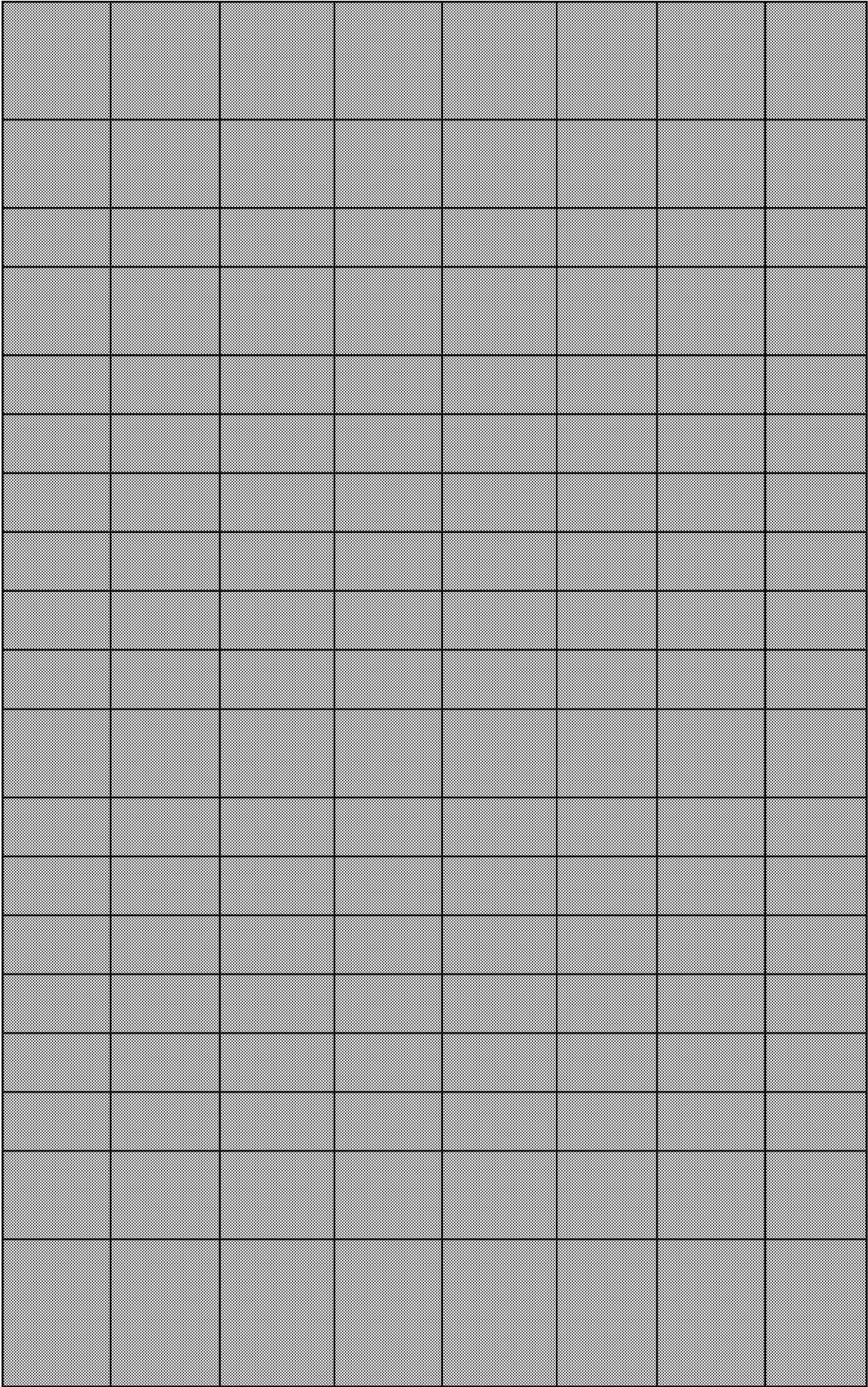
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Foliar applications of vitamin E (alpha-tocopherol) were evaluated for reducing oxidative stress in apple leaves and fruit a
Persistent oxidative stress due to generation of reactive oxygen species (ROS) has been associated with malignancy and c
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DESCRIPTION (provided by applicant): Neuroinflammation, a feature of neurodegenerative diseases of diverse origins, ad
The toxic effects of several organic nitrogen and aromatic compounds were reviewed, with emphasis on their action on t
PESTAB. Studies were performed to determine the effects of paraquat on the energy transfer of rat liver mitochondria. M
The effect of paraquat on the mitochondrial energy transfer reaction was investigated. Paraquat stimulated state 4 respi
PESTAB. The actions of paraquat and dimethyl dithiocarbamate (DMDTC) on oxidative phosphorylation in mitochondria a
PESTAB. The actions of paraquat dichloride on oxidative phosphorylation, ATPase-activation, and the K factors were inve
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PESTAB. In vitro dialysis experiments were performed after addition of parathion, demeton -S-methyl sulfoxide, and dim
PESTAB. A 37-year-old farm woman swallowed a very small amount of dilute aqueous solution of paraquat dichloride wit
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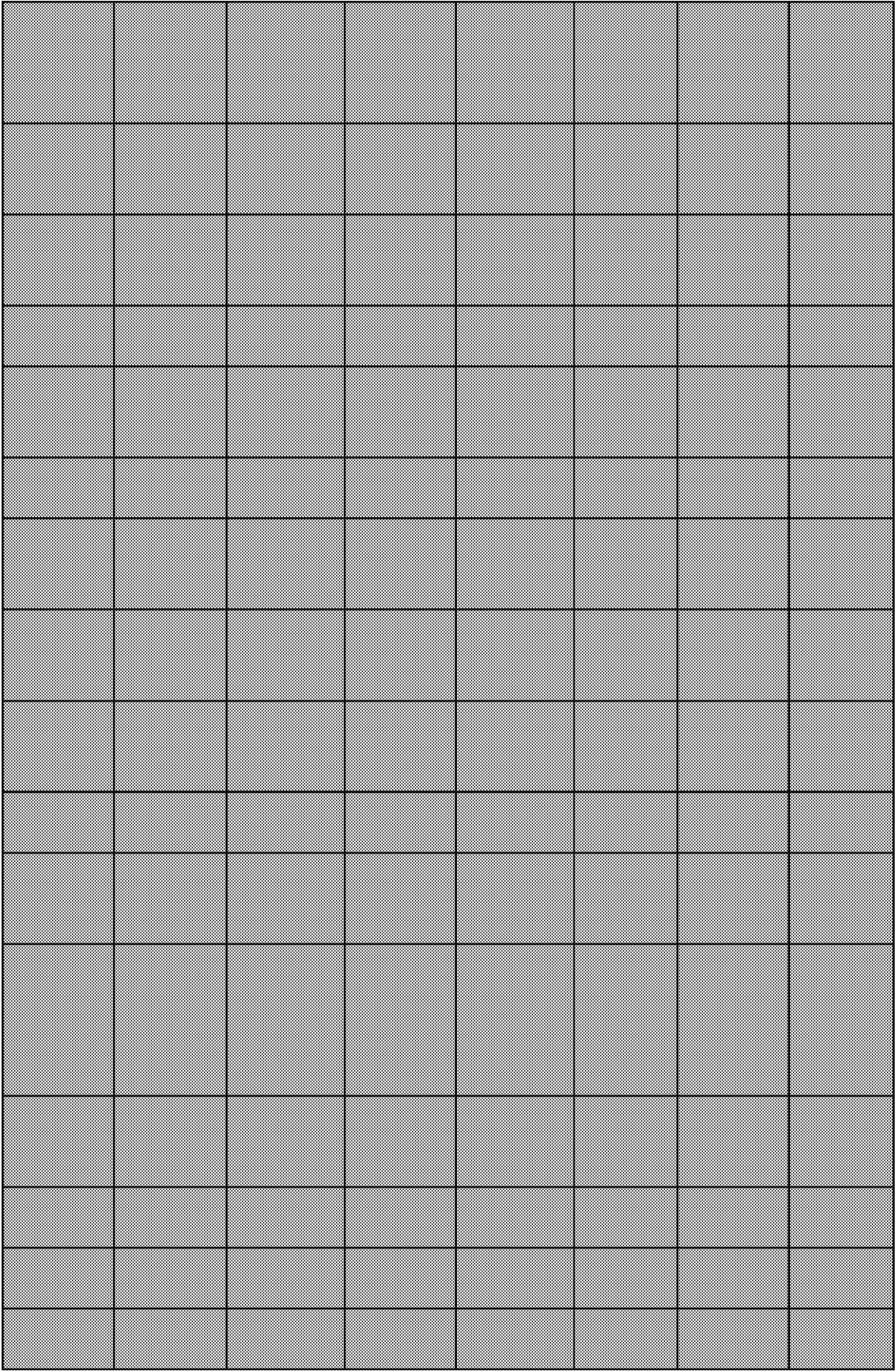
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Nitrofurantoin (N-(5-nitro-2-furfurylidine) 1-amino-hydantoin; NIT) is mainly used for the treatment of acute urinary tra
The genome of the model cyanobacterium <i>Synechocystis</i> sp. PCC6803 contains 28 genes encoding multidrug efflux trans
In the UK there was an increase in the annual number of deaths associated with paraquat poisoning between 1966 and 1
Here, we report the results of studies on the manipulation of two peroxiredoxins (dPrx3 and dPrx5), which constitute a m
We have cloned, sequenced and characterized the gene encoding the enzyme glutamylcysteine ligase (GCL), the rate lim
Objective: GOPARK study. A 10yrs prospective population based cohort study of Parkinson's disease (PD) and parkinsonis
Disruption of insulin/insulin-like growth factor signalling (IIS) has been shown to extend lifespan in a range of model orga
Disruption of insulin/insulin-like growth factor-1 signalling (IIS) has been shown to extend lifespan in various model orga
BIOSIS COPYRIGHT: BIOL ABS. We earlier showed that the neuropeptide vasoactive intestinal peptide (VIP) reduces or pr
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The effect of the herbicide paraquat on cell viability and the antioxidant network was studied in primary cultured rat hep
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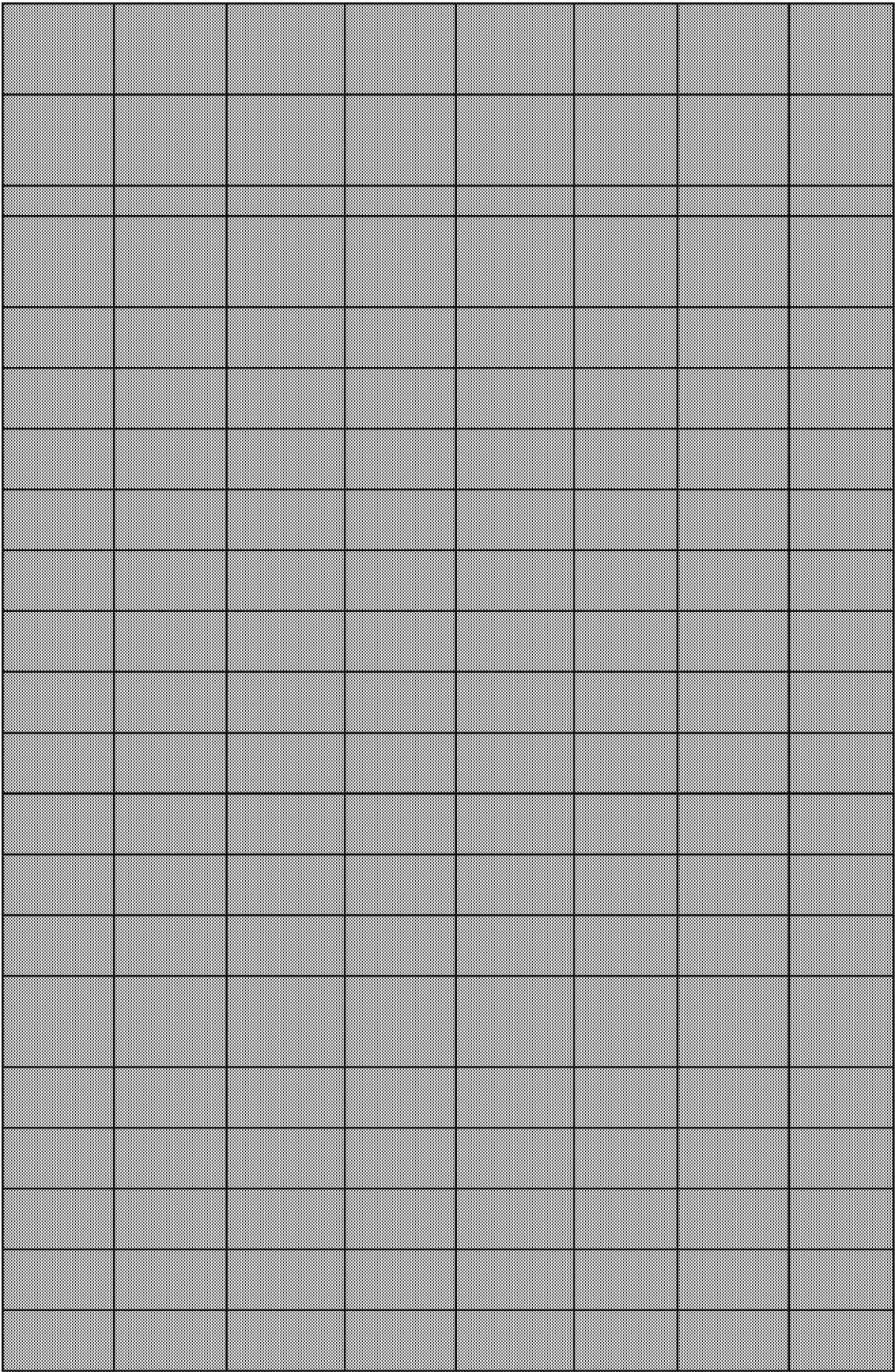


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Ascorbate-glutathione (AsA-GSH) cycle is an important component of the scavenging system for reactive oxygen compounds
Background: TDP-43 mis-localization and accumulation is central to the disease process in TDP-43 proteinopathies including
PESTAB. The necropsy findings in 14 cases of paraquat poisoning (11 suicides, 1 accident and 2 unknown intent) are described. Apolipoprotein D (ApoD) is expressed in the nervous system, increases with aging and neurodegeneration, and is induced
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Introduction: We recently demonstrated melanocyte-like cells (CMLCs) contribute to atrial arrhythmias when missing the
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PROJECT SUMMARY / ABSTRACTThe goal of our research is to translate the advances in genetics into clinical applications
Enterobacter bacteria are core residents in the gut of mosquito <i>Anopheles gambiae</i> , which are dominant in the gut micro
Under iron-limited conditions, <i>Escherichia coli</i> produces the catecholate siderophore enterobactin. We proposed that en
Alternative roles for siderophores might explain the potential adaptive advantages of microorganisms having multiple sider
There is increasing evidence that siderophores may play alternative roles, aside of providing cells with the necessary iron
A very dangerous activity among youth and young adults is the indiscriminate mixing and sharing of prescription drugs, o
BIOSIS COPYRIGHT: BIOL ABS. Scotch broom (<i>Cytisus scoparius</i> (L.) Link.) is an exotic perennial, leguminous, deciduous shr

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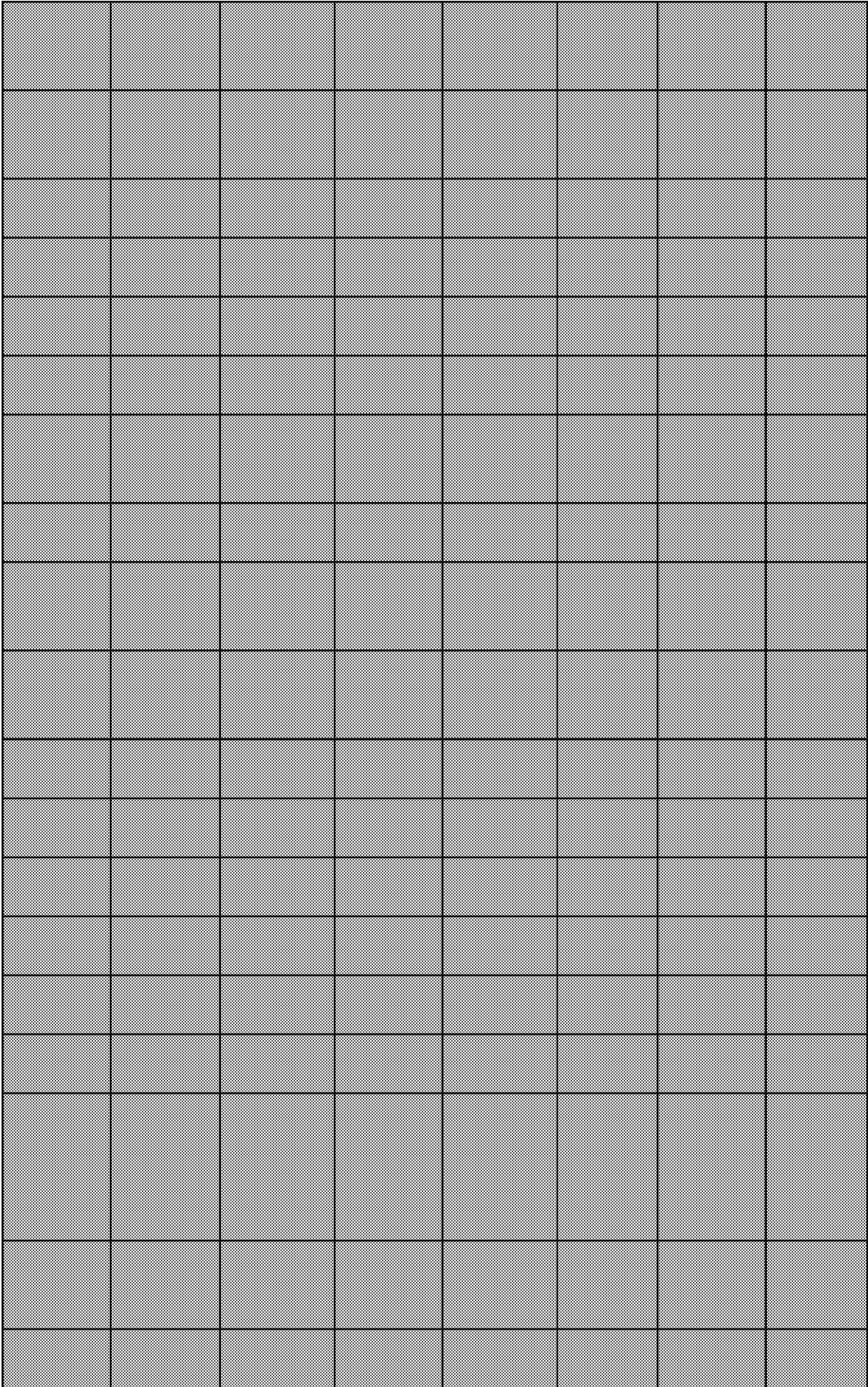
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Purpose: Published studies concerning radiotherapy at ultra high dose rate (Flash) show a possible increase in the difference in the response between the ultra high dose rate (Flash) and the conventional dose rate (Conventional) in the treatment of head and neck squamous cell carcinoma (HNSCC).
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DESCRIPTION (Taken from the Investigator's Abstract) The broad long-term objective of the proposed work is to understand the molecular mechanisms underlying the development of neurodegenerative diseases.
DESCRIPTION (Taken from the Investigator's Abstract) The broad long-term objective of the proposed work is to understand the molecular mechanisms underlying the development of neurodegenerative diseases.
2010-2014 has been a productive period. Our success in devising novel methods to study the molecular mechanisms underlying the development of neurodegenerative diseases.
HAPAB After a brief description of Gramoxone (20% paraquat), its chemical structure and toxicity, a case of poisoning in a patient with a history of paraquat poisoning.
The effects of cold hardening of cereals on their cross-tolerance to treatments leading to oxidative stress were investigated.
Biosis copyright: biol abs. rrm paraquat 1 methyl-4-phenyl-1,2,3,6-tetrahydropyridine herbicide neurotoxin spectrophotometry
The neurotoxicities of inorganic arsenic (7440382), barium (7440393), p-bromophenylacetylurea (30241862), carbon-tetrachloride (7782-50-5), and paraquat (1071-59-6).
Pharmacoeconomic studies provide evidence that use of metformin, a drug commonly prescribed for type II diabetes, is associated with a lower risk of cardiovascular disease.
Paraquat, a widely used herbicide, has caused hundreds of fatalities from pulmonary fibrosis in patients who have ingested it.
Paraquat, a widely used herbicide, has caused hundreds of fatalities from pulmonary fibrosis in patients who have ingested it.
Paraquat, a widely used herbicide, has caused hundreds of fatalities from pulmonary fibrosis in patients who have ingested it.
A technique to help measure the metabolism of paraquat (4685147) and other thionosulfur containing chemicals to phosphine.
PESTAB. Male BALB/c mice (2-3 mo old) were exposed to 12 mg/ml paraquat dichloride aerosol solutions for 15 min. The results showed that the mortality rate was 100%.
Background: In mammals 7 sirtuins with different subcellular localisations are known. Target proteins of the sirtuins are involved in a variety of cellular processes.
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Paraquat poisoning is associated with high mortality. There are no specific antidotes, management includes: Basic life support, decontamination, and supportive care.
To examine molecular events associated with aging and its retardation by caloric restriction (CR), we have employed high-resolution mass spectrometry (HRMS) to identify and quantify changes in the proteome.

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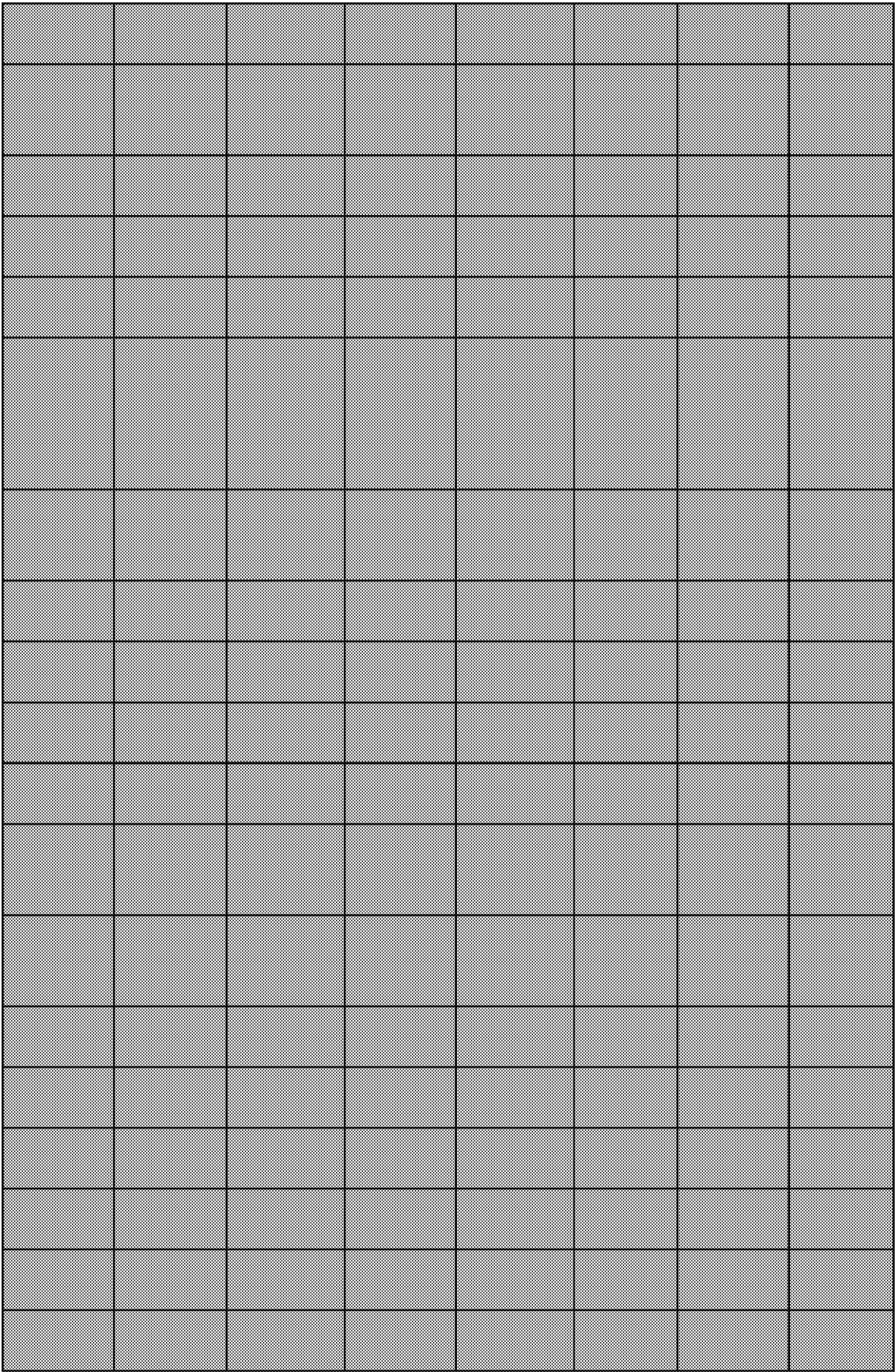
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Recent efforts have seen great progress in the search for mutant genes that extend life spans in worms, flies and yeast. T
The blue dissimilatory nitrite reductase (NiR) from <i>Alcaligenes xylosoxidans</i> is a trimer containing two types of Cu centre,
In meeting the goals and objectives of FMIC, the center continues to: -Service and maintain state-of-the-art equipment fo
Microbial electrocatalysis relies on microorganisms as catalysts for reactions occurring at electrodes. Microbial fuel cells
Ionic manganese, Mn(II), has been reported to possess antioxidant-like activity in various organisms, including in the sim
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A fractal analysis is presented for analyte-receptor binding kinetics for different types of biosensor applications. Data tak
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DESCRIPTION (provided by applicant): Alzheimer's disease (AD) is the most common dementia affecting millions of peopl
Background: Paraquat (PQ) is a herbicide and exerts its cytotoxicity via the generation of reactive oxygen species (ROS). T
The cytotoxicity of MEIC chemicals Nos, 11-30 was evaluated by determination of neutral red uptake in Balb/c 3T3 mouse
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The DNA of two <i>Streptomyces</i> species contains site-specific labile modifications. During gel electrophoresis the DNA can

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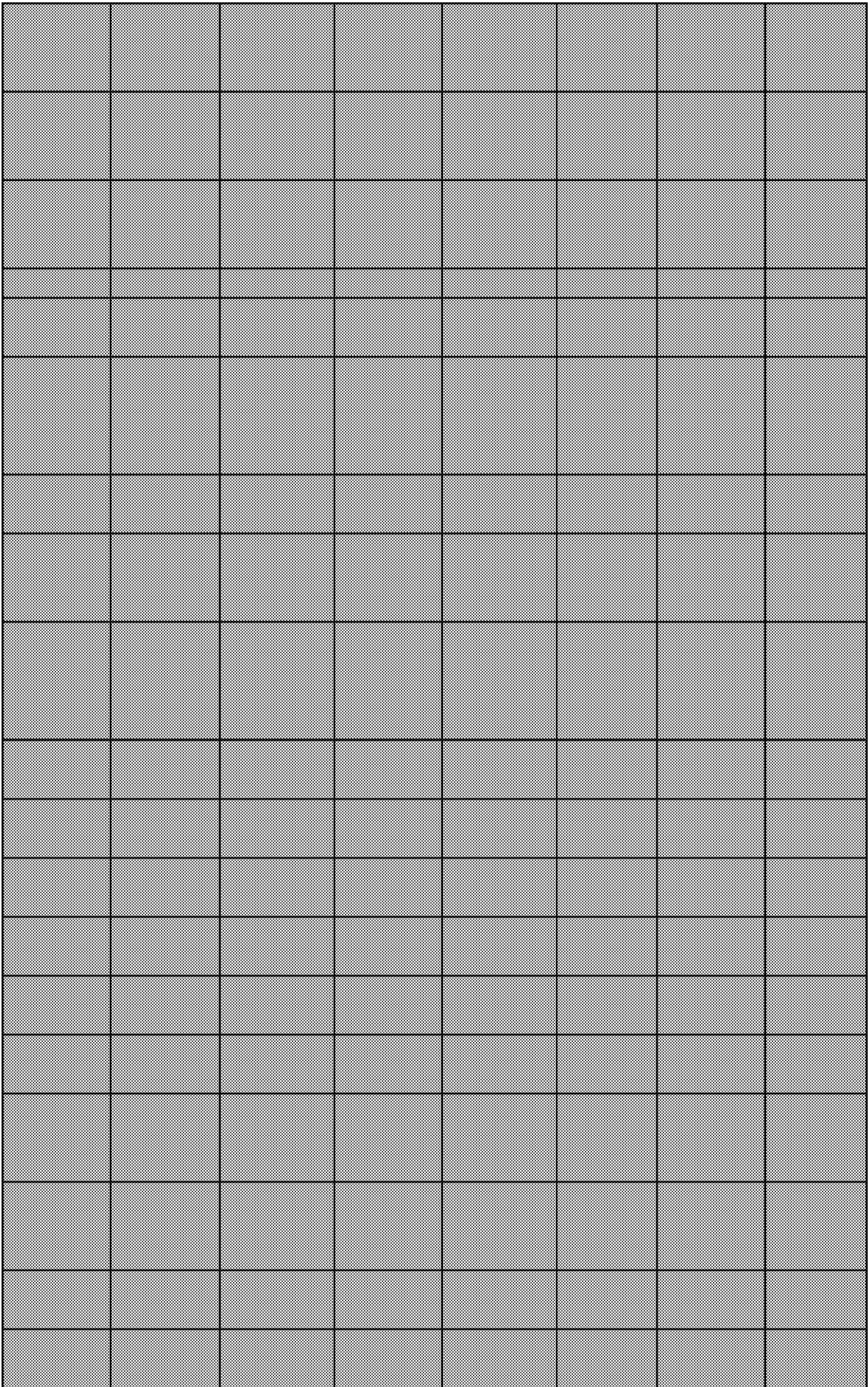
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no. 1656 from the 60th annual meeting, of FASEB, Anaheim, CA Apr. 11-16, 1976, reprinted by permission)
The indoleamine melatonin, a product of tryptophan metabolism in the pineal gland, is a free radical scavenger and antio
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Objectives: Chrozophora tinctoria(Euphorbiacea)is an annual which is endemic to Egypt, Japan and Iran. Methanolic extra
Biosis copyright: biol abs. rrm book chapter 3-4 5-dimethylthiazol-2-yl-2 5-diphenyltetrazolium bromide reactive oxygen
Annual rept. 1 Sep 1998-31 Aug 1999. The purpose of this project is to study environmental and genetic interactions in th
DESCRIPTION (provided by applicant) The cause(s) of idiopathic Parkinson's disease (PD) in man remains unknown, but re
DESCRIPTION (provided by applicant) The cause(s) of idiopathic Parkinson's disease (PD) in man remains unknown, but re
BIOSIS COPYRIGHT: BIOL ABS. The major predictors of health risk from pesticide exposure are quantity and toxicity of pes
The pulmonary toxicity of paraquat is mediated via reactive oxygen species (ROS). Recently paraquat has been shown to
Metabolism of mitochondrial derived reactive oxygen species is hypothesized to play a significant role in cell death, proli
The effect of paraquat (4685147) on the alveolar lining layer was studied in rats. Sprague-Dawley-rats were injected subc
Parkinson's disease (PD) is a movement disorder that is chronic and progressive, meaning that symptoms continue and w

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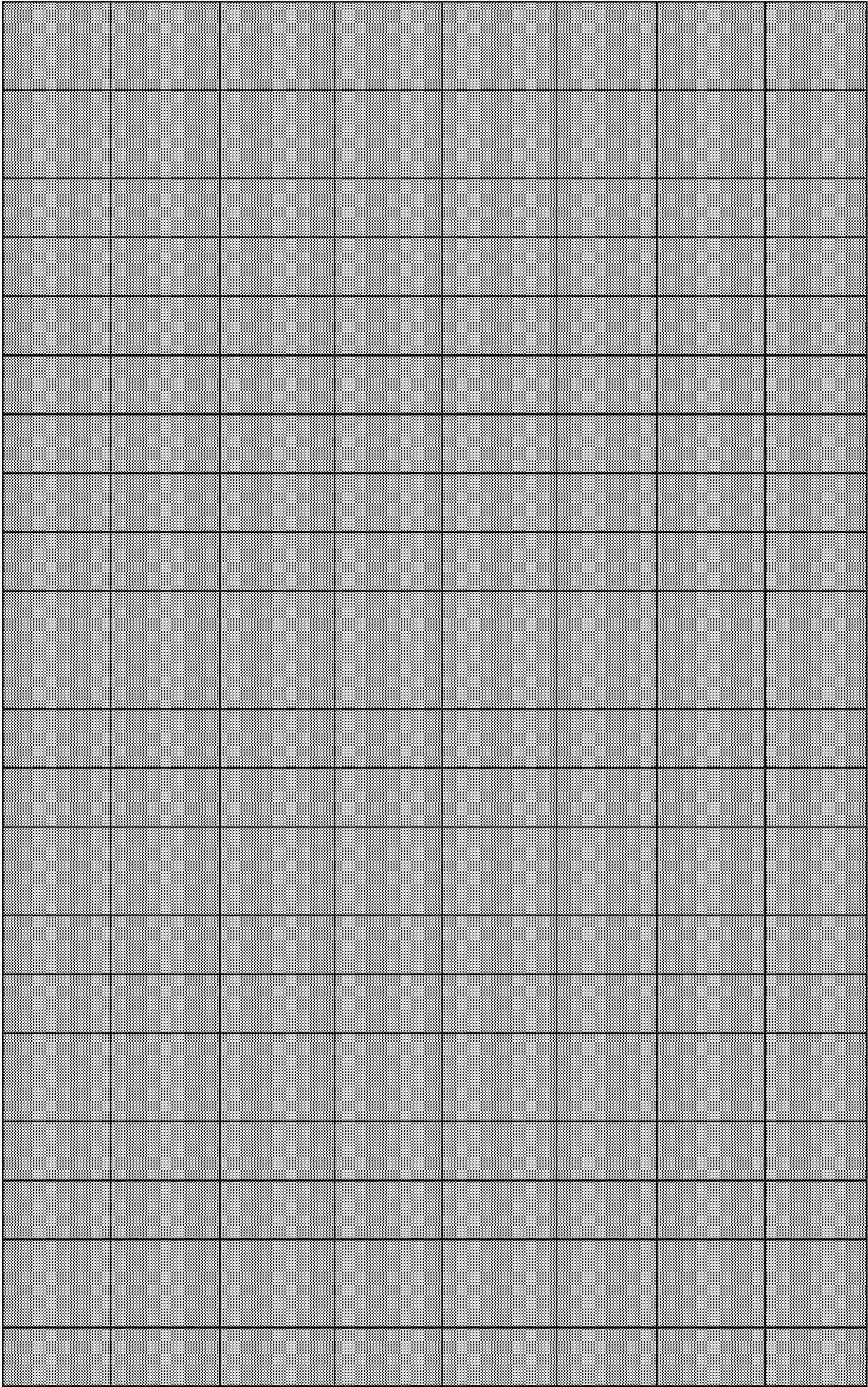
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Little is known about the etiopathogenesis of Parkinson's disease (PD). However, the loss of dopaminergic neurons in the
Background: The transient receptor potential (TRP) melastatin subtype 2 (TRPM2) and canonical subtype 3 (TRPC3) channels
DESCRIPTION (provided by applicant): Environmental pesticide exposure is connected to the occurrence of Parkinson's disease
DESCRIPTION (provided by applicant): Repeated exposure to environmental agents, such as pesticides and metals, can alter
Abstract Repeated exposure to environmental agents, such as pesticides and metals, can alter gene expression patterns,
Abstract Repeated exposure to environmental agents, such as pesticides and metals, can alter gene expression patterns,
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DESCRIPTION (provided by applicant) Caloric restriction (CR) has emerged as the most successful way to extend the lifespan
DESCRIPTION (provided by applicant) Caloric restriction (CR) has emerged as the most successful way to extend the lifespan
Biosis copyright: biol abs. rrm abstract paraquat tert butyl hydroperoxide
Paraquat was originally labelled a 'hit and run' poison by Dr John Barnes (1968) and the mechanism of toxicity was thought
PESTAB. Paraquat is a widely used, nonselective herbicide whose ingestion causes severe lung lesions in many animals, in
The effects of paraquat (4685147) on oxygen consumption in rabbit lungs were studied in-vitro. Slices of normal white lung
The effects of paraquat (4685147) on the aerobic metabolism and viability of isolated rabbit alveolar macrophages and lung
The effects of oxygen (7782447) and paraquat (4685147) on glucose oxidation were studied in-vitro. Alveolar macrophages
PESTAB. Clinical, histopathological, and cytopathological findings in Wistar rats experimentally poisoned with a single 25
PESTAB. (13 references) (French) jThe mechanism of the development of lung fibrosis in poisoning with paraquat and its
Biosis copyright: biol abs. rrm abstract rabbit ganglion blockade
DESCRIPTION (provided by applicant): My long-term goal is to understand causes and consequences of social evolution and

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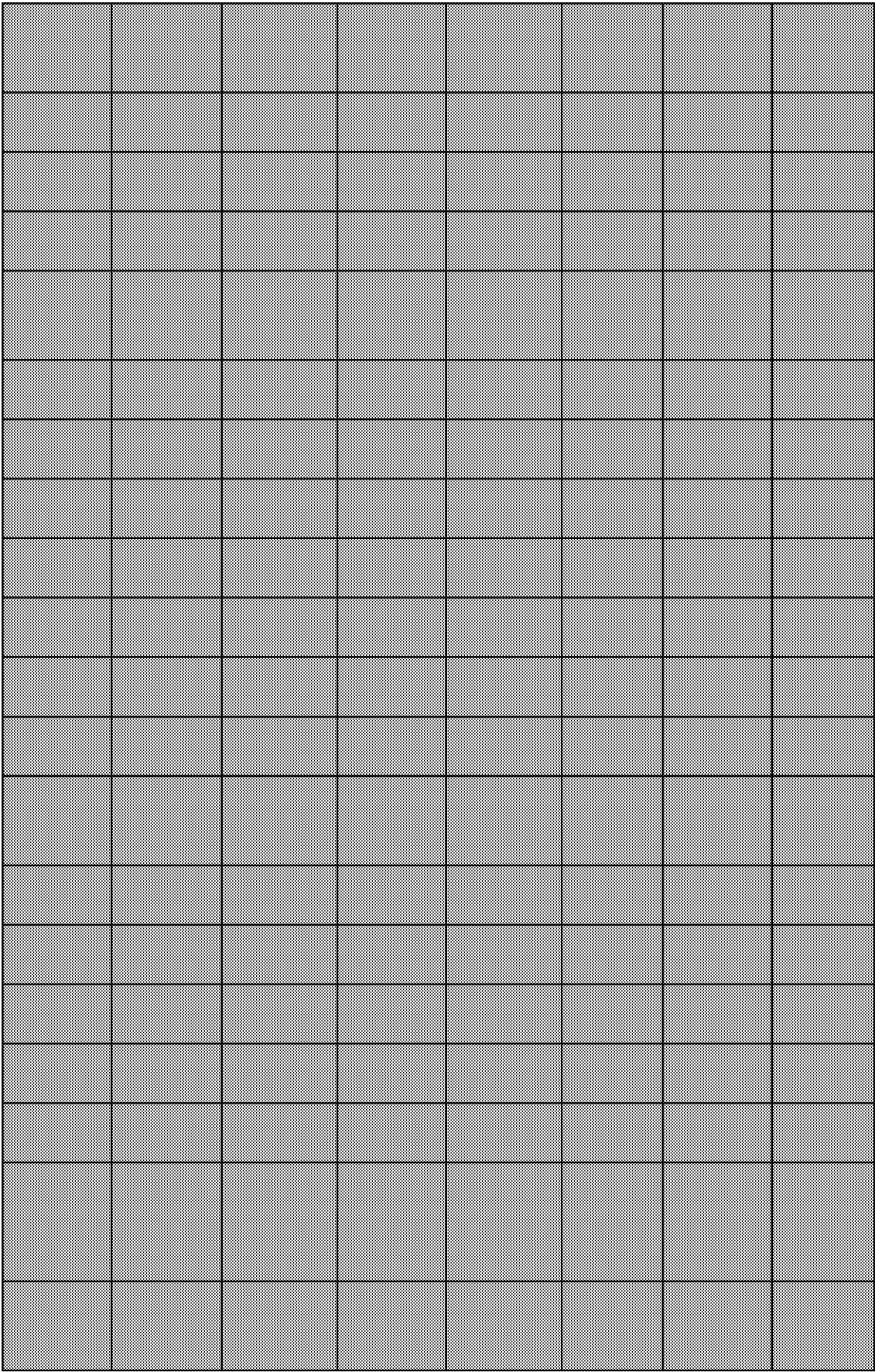
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Early life stressors can affect aging and life expectancy in positive or negative ways. Individuals can adjust their behavior
NLaz (Neural Lazarillo) is a glycoprotein secreted mainly by neurons. As a member of the Lipocalin family, NLaz forms an
Exposure of somatic cells to DNA damaging agents may lead to genomic instability and degenerative disease. Restoration
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Although they are considered as destructive agents, free radicals can sometimes become useful. Their presence is intima
In catecholaminergic neural cell lines or primary culture of mesencephalic neurons, toxins like MPTP, rotenone, paraquat
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DESCRIPTION (provided by applicant): The broad objectives of this proposal are: to achieve better means of cell and tissu
[unreadable] DESCRIPTION (provided by applicant) [unreadable] [unreadable] Parkinson's disease (PD) is a chronic, progr
NADPH-thioredoxin reductase C (NTRC) is a bimodular enzyme composed of an NADPH-thioredoxin reductase and a thio
Three types of inhalatory intoxications can be distinguished. In the first type the pulmonary symptoms are seen promptly
DESCRIPTION (provided by applicant): Immunosenescence of primary lymphatic organs is characterized by a decrease in
DESCRIPTION (provided by applicant): Immunosenescence of primary lymphatic organs is characterized by a decrease in
[unreadable] DESCRIPTION (PROVIDED BY APPLICANT): Parkinson's disease (PD) and other age-associated neurological d
Cystine/glutamate exchange transporter (system xc-) consists of xCT and 4F2 heavy chain, of which the former functions
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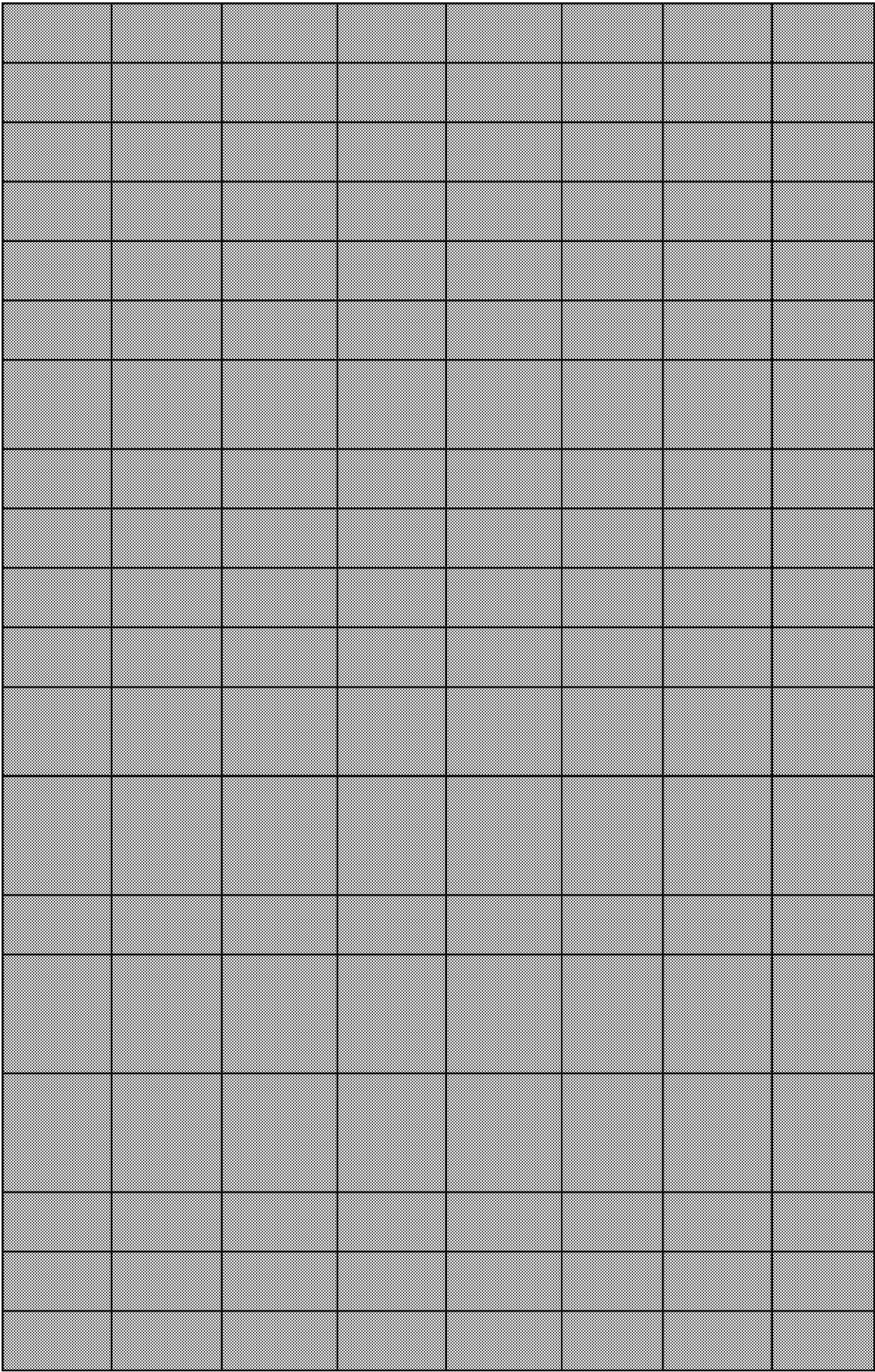
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Serious intoxications and incidences due to misuse of organophosphorus insecticides (OP) have been reported for over th
This RCDA application is an updated version of a regular research proposal submitted by the PI in November 1984, and fu
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This RCDA application is an updated version of a regular research proposal submitted by the PI in November 1984, and fu
BIOSIS COPYRIGHT: BIOL ABS. Taste and smell are chemical senses that play a crucial role in food selection. Damage to ta
Severe and fatal cases of poisoning in the agricultural environment are most often due to insecticides, manure and silo g
[unreadable] DESCRIPTION (provided by applicant): Autonomic neuropathy is a significant diabetic complication resulting
DESCRIPTION (provided by applicant): Autonomic neuropathy is a significant diabetic complication resulting in increased
The effect of alpha-tocopherol treatment has been studied in plants exposed to oxidative stress. For inducing a defined a
An 8.9-kb segment with hydrogenase genes from the cyanobacterium <i>Anabaena variabilis</i> has been cloned and sequence
Biosis copyright: biol abs. rrm meeting abstract n-hexane hexachlorophene acrylamide paraquat reduced protein time
HAPAB The clinical data, morphological findings and quantitative analyses in an acute and lethal intoxication with orally i
Previous research has discovered that pesticides which generate reactive oxygen species (ROS), such as the bipyridilium
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DESCRIPTION (provided by applicant): Cerium is a rare earth element of the lanthanide series whose oxide form has been

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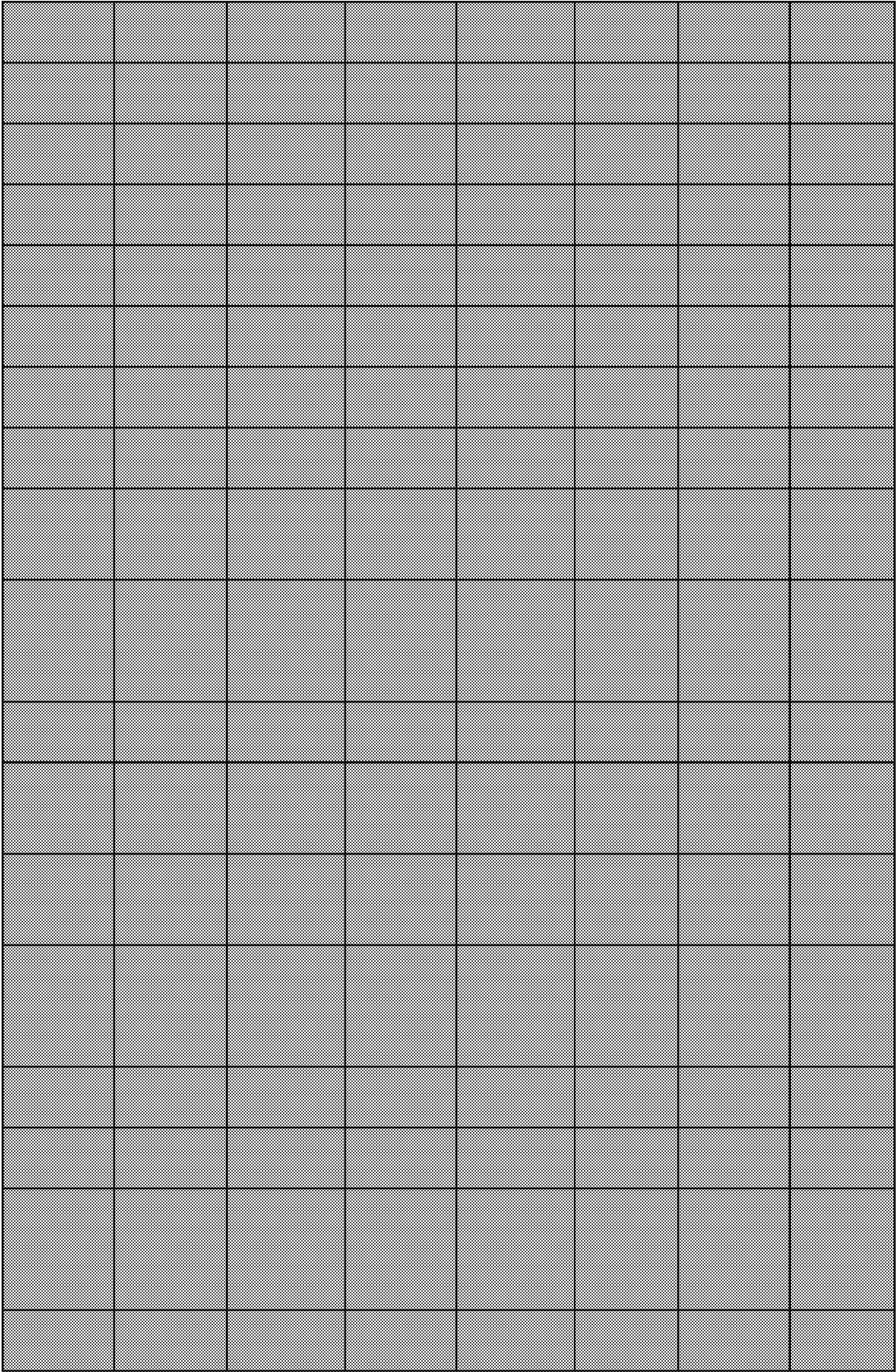
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DESCRIPTION (provided by applicant): Cerium is a rare earth element of the lanthanide series whose oxide form has been used as a catalyst in a variety of chemical reactions.
DESCRIPTION (provided by applicant): Cerium is a rare earth element of the lanthanide series whose oxide form has been used as a catalyst in a variety of chemical reactions.
4,4'-Methylenebis(2-chloroaniline) (MOCA) is a genotoxic and carcinogenic industrial chemical to which there is considerable exposure in the workplace.
The goal of this project is to determine the mechanisms underlying age-associated fragmentation of sleep:wake cycles and its effects on health.
Biosis copyright: biol abs. rrm data analysis statistics occupational hazard environment food residues japan
The <i>Yarrowia lipolytica</i> species (Yl) is nonconventional yeast widely used for recombinant protein expression due to its synthetic growth requirements.
Pathogenic aggregation of α -synuclein (α -Syn) is increasingly implicated in familial and sporadic Parkinson's disease.
DESCRIPTION (provided by applicant): Pathogenic aggregation of alpha-synuclein (alphaSyn) is increasingly implicated in Parkinson's disease.
BIOSIS COPYRIGHT: BIOL ABS. Paraquat action on glutathione reductase activity and intratissue distribution in the liver of rats.
An epidemiological study of the health of Sri Lankan tea plantation workers associated with long term exposure to paraquat.
BIOSIS COPYRIGHT: BIOL ABS. The cause of death as recorded in 37125 death certificates (DCs) issued in the Kandy District of Sri Lanka.
The lymphatic organ, the spleen, is of immense immunological importance as it is the largest blood filter in the mammalian body.
In <i>Drosophila</i> we have used yeast two-hybrid interaction assays to identify Digitor (CG14962) a zinc-finger protein with similarity to the human protein.
Biosis copyright: biol abs. rrm abstract human xenobiotics streptonigrin paraquat hydroxyl radical
The antiarrhythmic drug amiodarone and the herbicide paraquat are known to cause pulmonary fibrosis, but their mechanisms of action are unknown.
Biosis copyright: biol abs. rrm genetics oxygen radical detoxification superoxide dismutase glutathione reductase ascorbate
Biosis copyright: biol abs. rrm abstract conyza-bonariensis superoxide dismutase ascorbate peroxidase glutathione reductase
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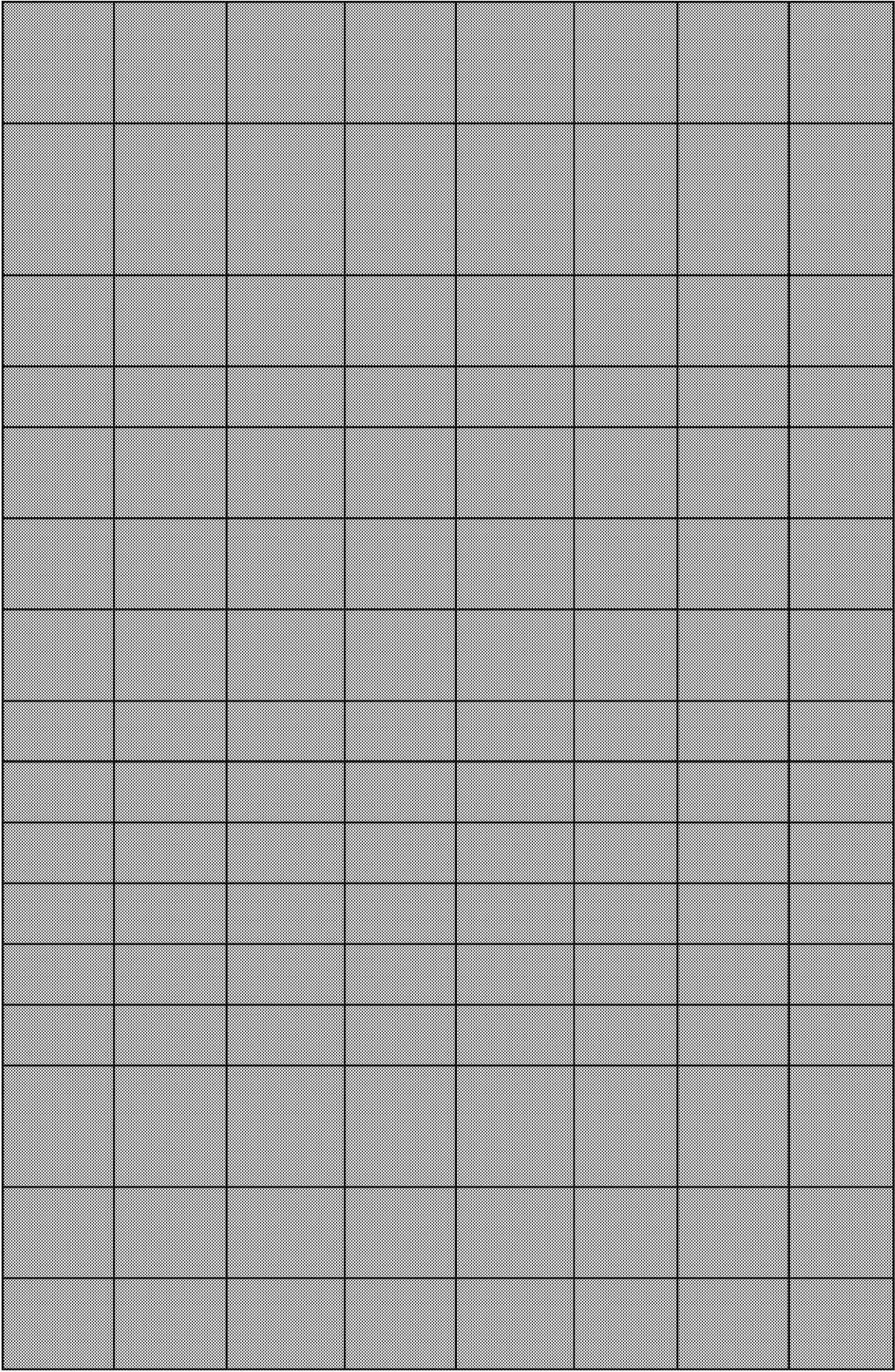
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Aims To evaluate the detoxifying effect of epigallocatechin-3-gallate (EGCG) on paraquat (PQ)-induced acute lung injury i
The incorporation of $^{14}\text{CO}_2$ by the cell suspensions of an extremely thermophilic, aerobic hydrogen-oxidizing bacterium,
Paraquat is a widely used, non-selective herbicide. Unfortunately, this herbicide is toxic and is often lethal to human. Acc
Background: Osteocytes act as orchestrators of bone remodeling by regulating both the osteoblast and osteoclast activity
The ductus arteriosus (DA) remains patent during the fetal period and is responsible for most of the blood flow in the pul
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DESCRIPTION (provided by applicant): The major goal of this study is to determine the potential of rhamnetin, a natural p
In these experiments, N-acetylcysteine was investigated as an antioxidant and free radical scavenging agent in acute para
A case of combined paraquat and acetaminophen ingestion is reported with accompanying serial serum levels (including
Escherichia coli NADPH sulfite reductase (EC 1.8.1.2), which catalyzes the 6 electron reduction of sulfite to sulfide, is a co
NADPH sulfite reductase (EC 1.8.1.2) from Escherichia coli is a complex hemoflavoprotein, molecular weight 670,000, cor
The "Uncoupling to Survive" Hypothesis suggests that oxidative stress induces reduced coupling of oxidative phosphoryla

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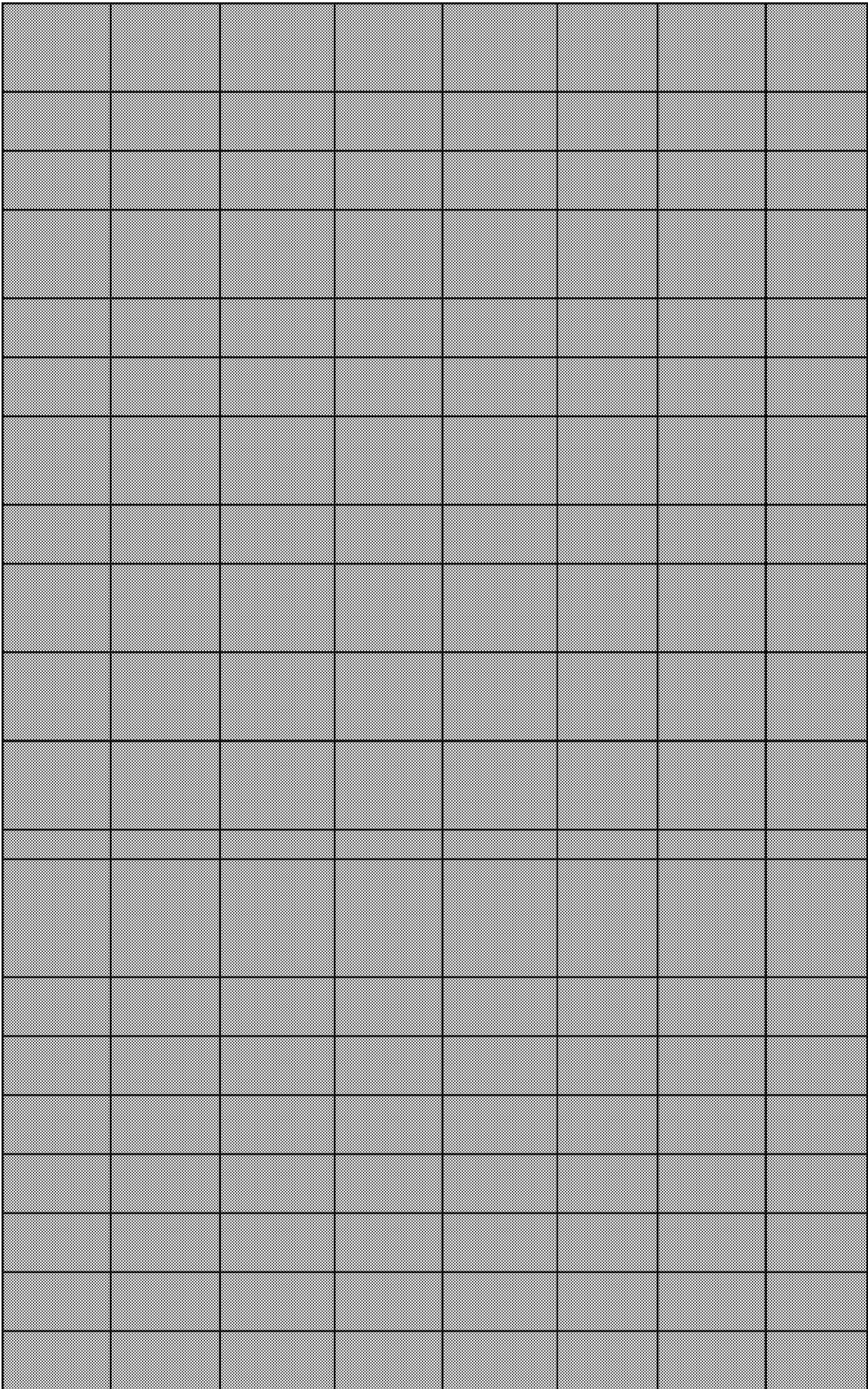


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The mitochondrial free radical theory of aging suggests that the buildup of oxidative damage caused by mitochondrially-
Oral ingestion of about 80 ml of a 20% solution of paraquat (Gramoxone) by a 44 yr-old male alcoholic was followed by a
Introduction. Paraquat is a commonly used highly toxic herbicide. Despite many studies on detoxification of paraquat, an
The nitric oxide acts on the antioxidant system of plants and can discontinue the damage of herbicides elicitors of oxidati
Biosis copyright: biol abs. rrm journal article human paracetamol salicylate methanol paraquat metals pesticide ampheta
Summary: SoxR from Escherichia coli and related enterobacteria is activated by a broad range of redox-active compound
Maneb (MB) and paraquat (PQ) provoke oxidative stress-mediated cell damage. Role of xanthine oxidase (XO) in oxidativ
DESCRIPTION (provided by applicant): Recent evidence implicates that the oxidative stress plays a role in the etiology of ,
Objective: Recent epidemiological and toxicological studies have shown that environmental factors especially, pesticides
Phycocyanin (PC, isolated from Leptolyngbya sp. N62DM) was tested for its anti-aging and proteostasis-suppressive pote
Due to its relative abundance in the cytosol, the thiol containing peptide, glutathione, is a critical mediator of oxidative st
PESTAB. In 1975, 45 people were hospitalized for pesticide poisoning, three of them cases of intentional posioning and 4.
Biosis copyright: biol abs. rrm plants glutathione reductase stress tolerance adaptive significance antioxidants pollutants
The effect of paraquat (4685147) (PQ) on lungs was reviewed. Autoradiographic studies indicated PQ was distributed thr
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Research Project 2 - Hypoxia and anaerobic metabolism regulation of cancer cell survival: a novel molecular target for an
DESCRIPTION (provided by applicant): Submitted in response to PAR-02-105, this project will explore the fetal basis of do
DESCRIPTION (provided by applicant): Submitted in response to PAR-02-105, this project will explore the fetal basis of do
Background: Paraquat is extremely toxic chemical material, which generates reactive oxygen species (ROS), causing mult
Paraquat poisoning has been associated with very high mortality. The toxic mechanism is considered to be related to the

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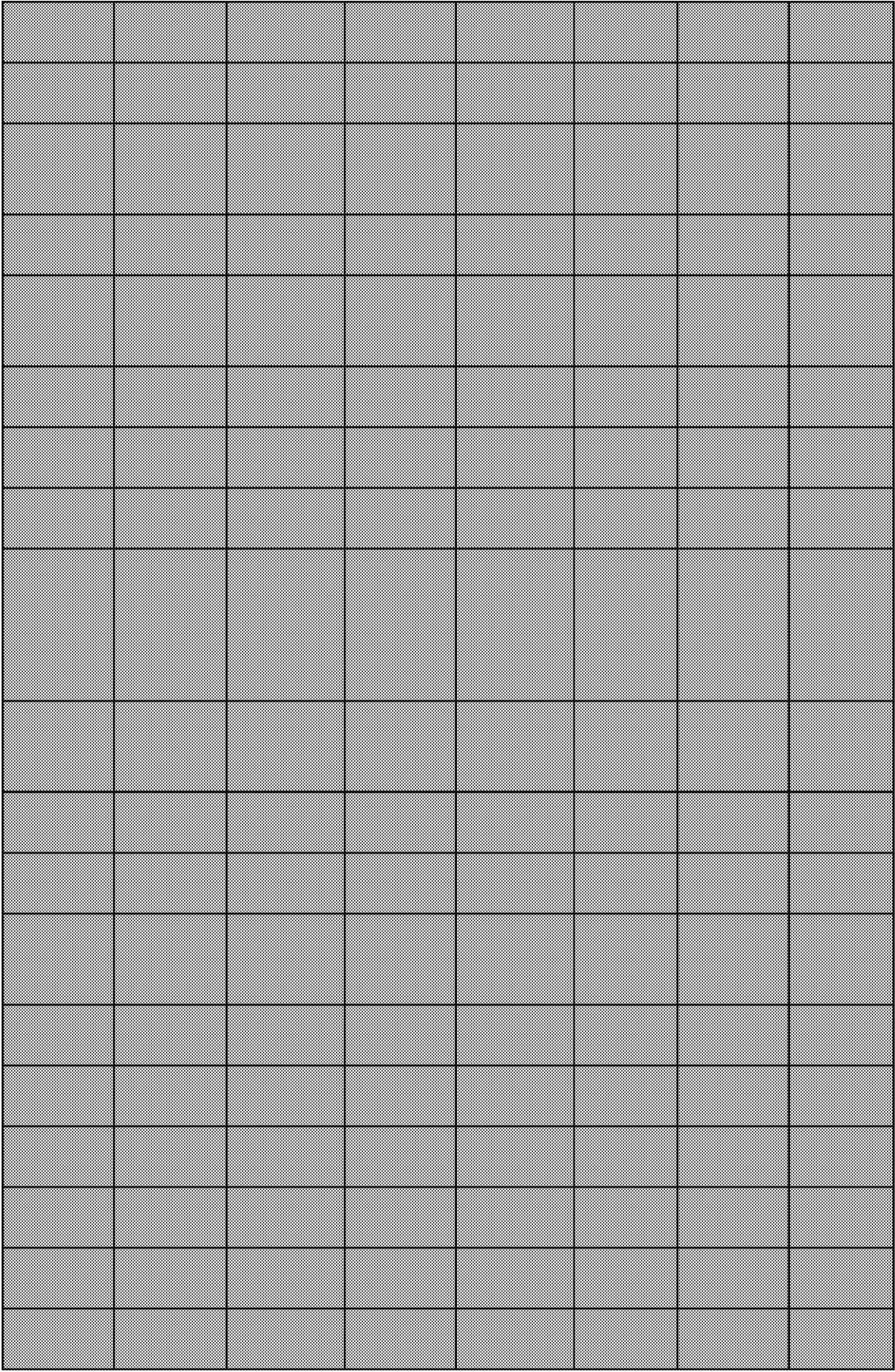
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PESTAB. A 27-yr-old man with a history of mental illness ingested 250 cc of a 29.1% paraquat solution. Activated charcoa
Purpose: Mice lacking the adaptor protein p66shc (p66shc ^{-/-}) have a 30% prolonged lifespan, an elevated resistance to p
Iron regulatory protein 1 (IRP1) post-transcriptionally regulates expression of iron metabolism genes to optimize cellular
DESCRIPTION: (Adapted from the investigator's abstract) Oxidative stress is produced by free radicals, both radicals that
Many biological processes, including aging, mutagenesis, and carcinogenesis, are induced by DNA damage inflicted unde
Commonly used organic pesticides and their effects after acute or chronic exposures are reviewed. Organophosphate, ca
34 chemicals were tested. Parameters evaluated were glutamate-oxaloacetate transaminase and lactate dehydrogenase
Biosis copyright: biol abs. rrm review algae cyanobacteria insecticides fungicides herbicides
BIOSIS COPYRIGHT: BIOL ABS. Activity of catalase (EC 1.11.1.6) and variable fluorescence (Fv) were measured in sections
DESCRIPTION: (Adapted from Applicant's Abstract). The principle objective of this study is to evaluate the effect of specific
DESCRIPTION: (Adapted from Applicant's Abstract). The principle objective of this study is to evaluate the effect of specific
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DESCRIPTION (provided by applicant): Parkinson's disease (PD) is the second most prevalent age-related neurodegenerat
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DESCRIPTION (provided by applicant): Parkinson's disease (PD) is the second most prevalent age-related neurodegenerat
PESTAB. Results of a nation-wide survey of clinical cases of pesticide intoxication were reported for 1978. Of the cases ex
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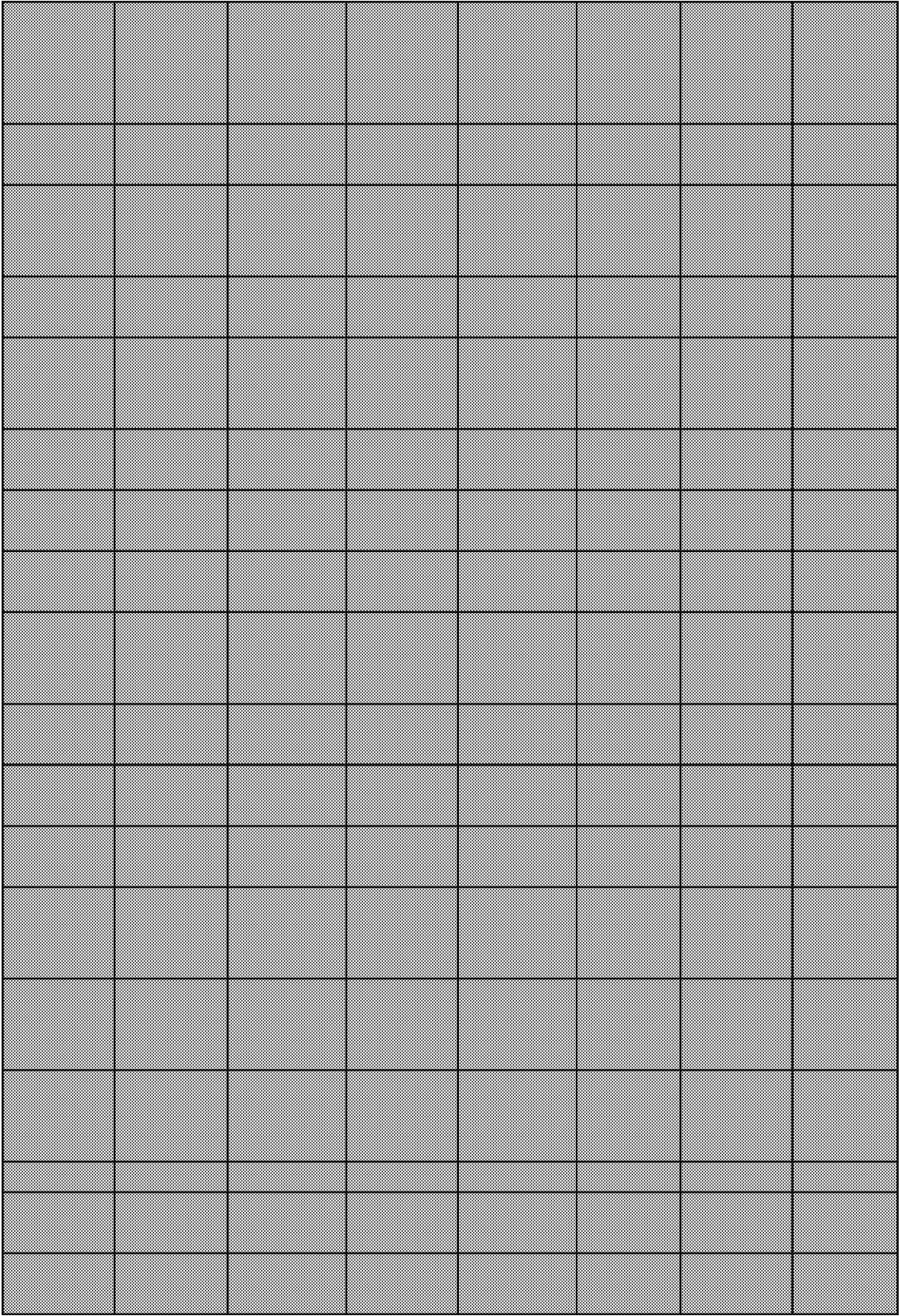
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Recent studies have pointed to protein S-nitrosylation as a critical regulator of cellular redox homeostasis. For example, S
Seedlings of <i>Arabidopsis thaliana</i> wild type (WT) and two mutants: 1. with impaired synthesis of alpha-and gamma-tocopherol
Peroxynitrite, the product of the diffusion-controlled reaction of nitric oxide with superoxide, is a short-lived oxidant species
Paraquat/atrazine coresistant (PqAR) and paraquat resistant (PqR) horseweed (<i>Conyza canadensis</i> L. Cronq.) plants show
It was demonstrated that there is no significant constitutive difference related to the paraquat resistance between untreated
Polyamines (putrescine, spermidine, and spermine) are major cellular components, and have been shown to be involved in
Biosis copyright: biol abs. rrm review acid rain metal pollutant organic xenobiotic physiological change morphological change
Biosis copyright: biol abs. rrm meeting abstract meeting poster l132 cell line u937 cell line p53-independent apoptosis human
A 54-year-old man was admitted 3 hours after ingesting about 20 ml of paraquat solution (Glamoxon S®), and a 36-year-old
Occupational chemical exposures have been associated with increased risk of Parkinson's disease (PD) or other forms of
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Introduction Mucosa-associated <i>E. coli</i> are commonly found in patients with Crohn's disease (CD), colorectal cancer (CRC),
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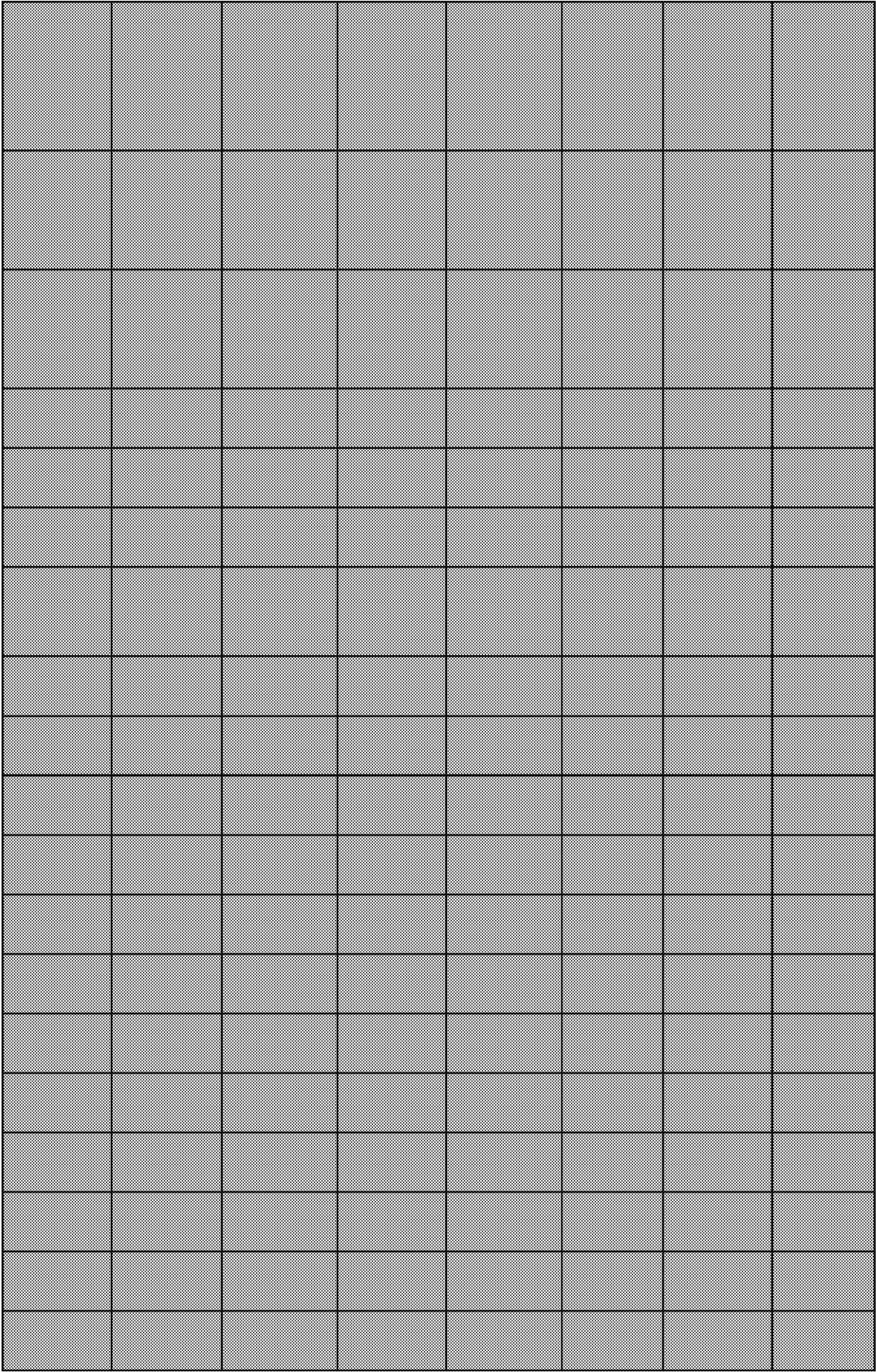
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PrincipalInvestigator/Program Director (Last, First, Middle): Thiruchelvam, Mona J. ABSTRACT The Parkinson's disease (P
It still remains to be determined whether developmental insults or cumulative insults across life could underlie the etiolo
Parkinsons disease (PD), an aging neurological disorder, for unknown reasons is more prevalent in males than females. V
Biosis copyright: biol abs. rrm free radical mediated toxicity nadph-cytochrome p-450 reductase superoxide dismutase xa
Biosis copyright: biol abs. rrm literature review human polyunsaturated fatty acids alpha-tocopherol beta-carotene oxyge
BIOSIS COPYRIGHT: BIOL ABS. Covering a crop of Chinese cabbage with fibrelike nets of plastic makes it possible to prote
Currently, there are over 80,000 chemicals in use and approximately 2000 new chemicals are introduced into use every y
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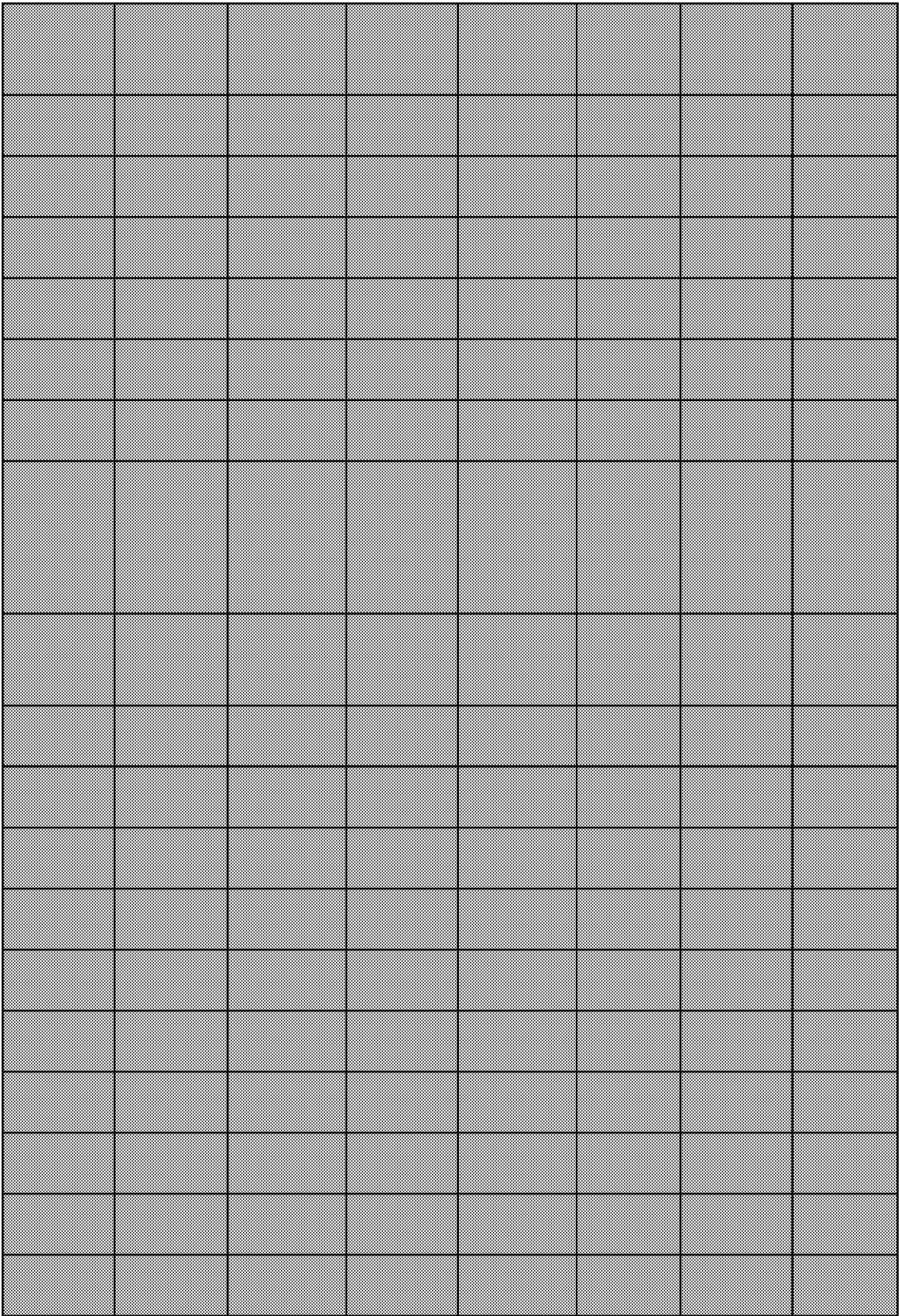
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Calorie restriction (CR) extends the life span of various species through mechanisms that are as yet unclear. Recently, we
Paraquat (1,1-dimethyl 4,4-bipyridinium dichloride) was once used as a herbicide in many countries, without any restrict
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PESTAB. Seven herbicide formulations, 2,4-D, picloram, picloram + 2,4-D, 2,4-D + 2,4,5-T, paraquat, simazine, and diuron,
HEEP COPYRIGHT: BIOL ABS. Six community statistics were computed to describe the structure of 2 plant communities ar
PESTAB. A 22-yr-old man swallowed paraquat dichloride in a suicide attempt. On the 2nd day after poisoning, laryngoph
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This study was conducted to evaluate the efficacy of joyweed (<i>Alternanthera tenella</i>) control and antagonistic or synergis
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The overall objective of this project is to elucidate the subcellular reaction to injury in the kidney. The mechanisms of ren
Paraquat is the trade name for 1,1'-dimethyl-4,4'-bipyridinium dichloride, a bipyridyl herbicide. It is a rapid-acting herbic
Objective: Diquat is a pesticide chemically related to paraquat but with differentiated clinical picture. When ingested, the
PESTAB. The oral LD50 of 24% paraquat dichloride was determined as 0.39-0.43 ml/kg body weight in the mouse, correspo
This paper reviews the ability of a number of chemicals to induce sister-chromatid exchanges (SCEs). The SCE data for an
This brief literary review summarizes some of the known adverse effects of agrochemicals that have been linked both wi

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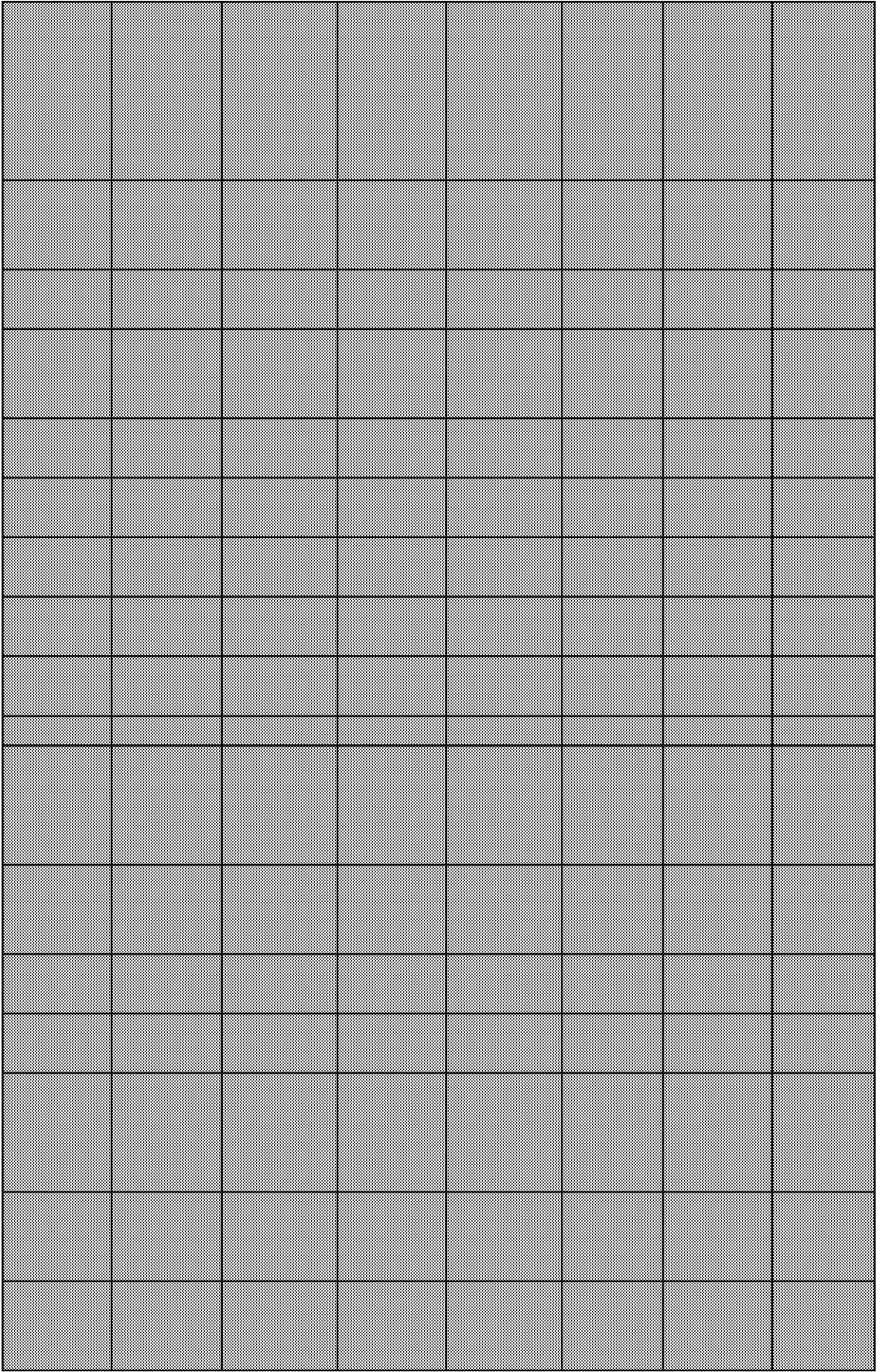
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PESTAB. Male Wistar rats were used in experiments designed to elucidate some biochemical effects of paraquat. One gro
PESTAB. Within the past five years, the number of pesticide intoxications has decreased as follows: 1035 (752), 1026 (605
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The characteristics of mutagenesis by glyoxal in Salmonella tester strains TA100 and TA104, and particularly a possible ro
For ADHD, based on a case-control study completed several years ago in a local school district, we have submitted a man
For ADHD, based on a case-control study completed several years ago in a local school district, we have published a man
Based on a case-control study completed several years ago in a local school district, we are continuing to investigate poss
Background/Purpose: Tissues affected with inflammatory arthritis (IA) are subjected to great levels of oxidative stress. Sy
BIOSIS COPYRIGHT: BIOL ABS. Oxygen free radicals and their metabolites, collectively described as reactive oxygen specie
Functional studies of the mitochondrial outer membrane protein Fis1 uncovered a novel regulatory pathway with unexpe
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A paraquat-resistant mutant was isolated from photomixotrophic cultures of Chlamydomonas reinhardtii, which showed
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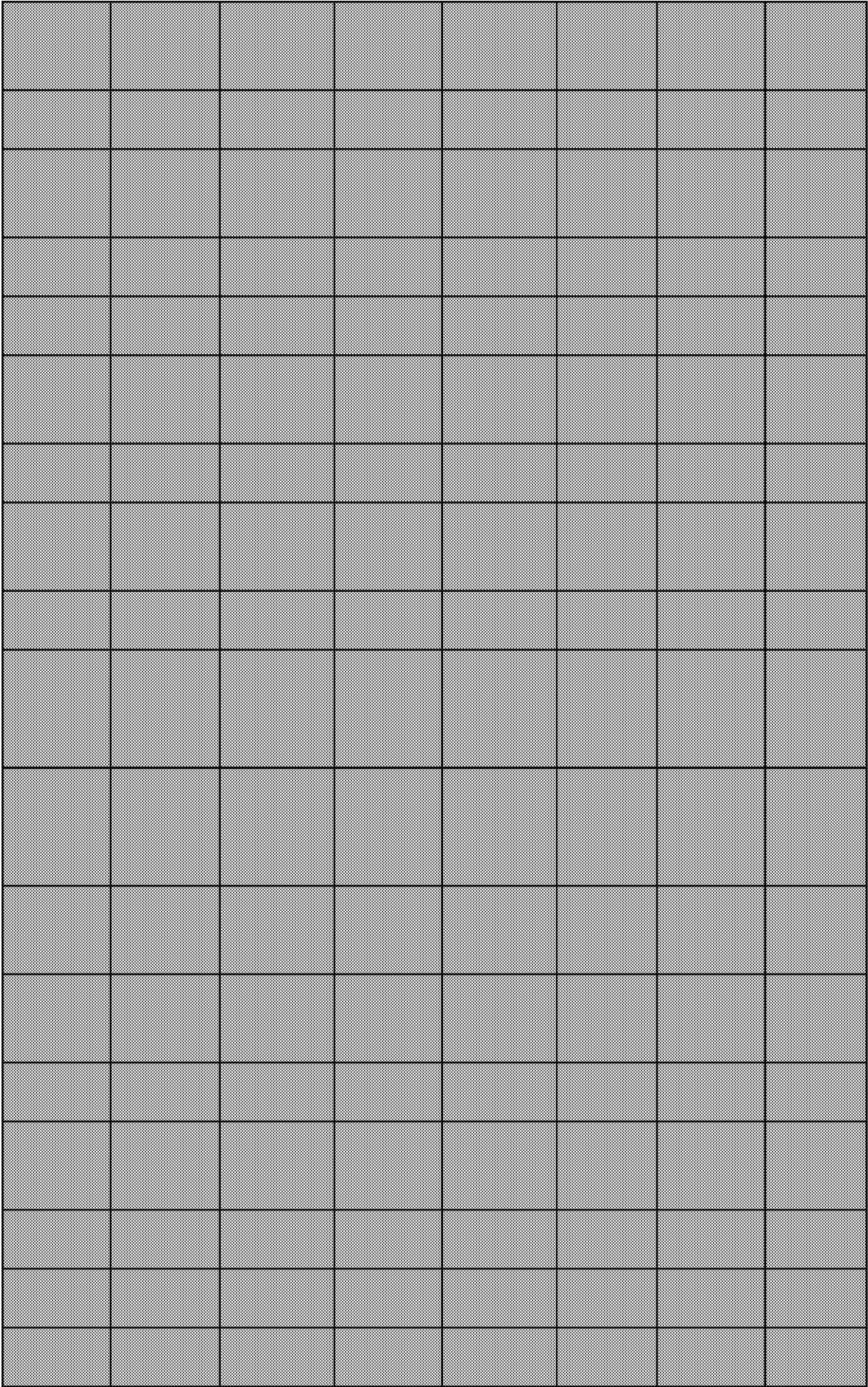
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Objective: Lead (Pb) toxicity is a persistent public health problem throughout the world. Epidemiological studies have shown
Nodal is asymmetrically expressed in the early sea urchin embryo and is the earliest indicator of the oral ectoderm territory
The herbicide paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) has been banned in Europe since 2007 due to its high
HEEP COPYRIGHT: BIOL ABS. Acute toxicity study of paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) was conducted
An important herbicide known to cause significant dermatotoxicity in exposed field workers including both allergic and contact
When normal-lived Ra strain Drosophila were indirectly selected for longevity, they gave rise to long-lived La strain animals
Biosis copyright: biol abs. rrm gill liver brain herbicide environmental toxin
An electroanalytical method has been developed to investigate the uptake of redox-active species by the humic acid substances
HEEP COPYRIGHT: BIOL ABS. A correlation between free and bound urea and the activity of arginase (arginineamidinohydrolase)
Biosis copyright: biol abs. rrm human national pesticide telecommunications network epa toxicity
Biosis copyright: biol abs. rrm abstract aerobic organism respiratory metabolism protective stress response heat-shock proteins
BIOSIS COPYRIGHT: BIOL ABS. Mitochondria have long been known to participate in the process of cell injury associated with
BIOSIS COPYRIGHT: BIOL ABS. The injury of the structure and function of soybean hypocotyl mitochondria induced by actinomycin D
LcMCII - 1 is a type II metacaspase. Over-expression of LcMCII- 1 in Arabidopsis promoted ROS-dependent and natural senescence
To clarify the interaction between different antioxidant enzymes for monitoring oxidative stress and ROS burst in rice senescing
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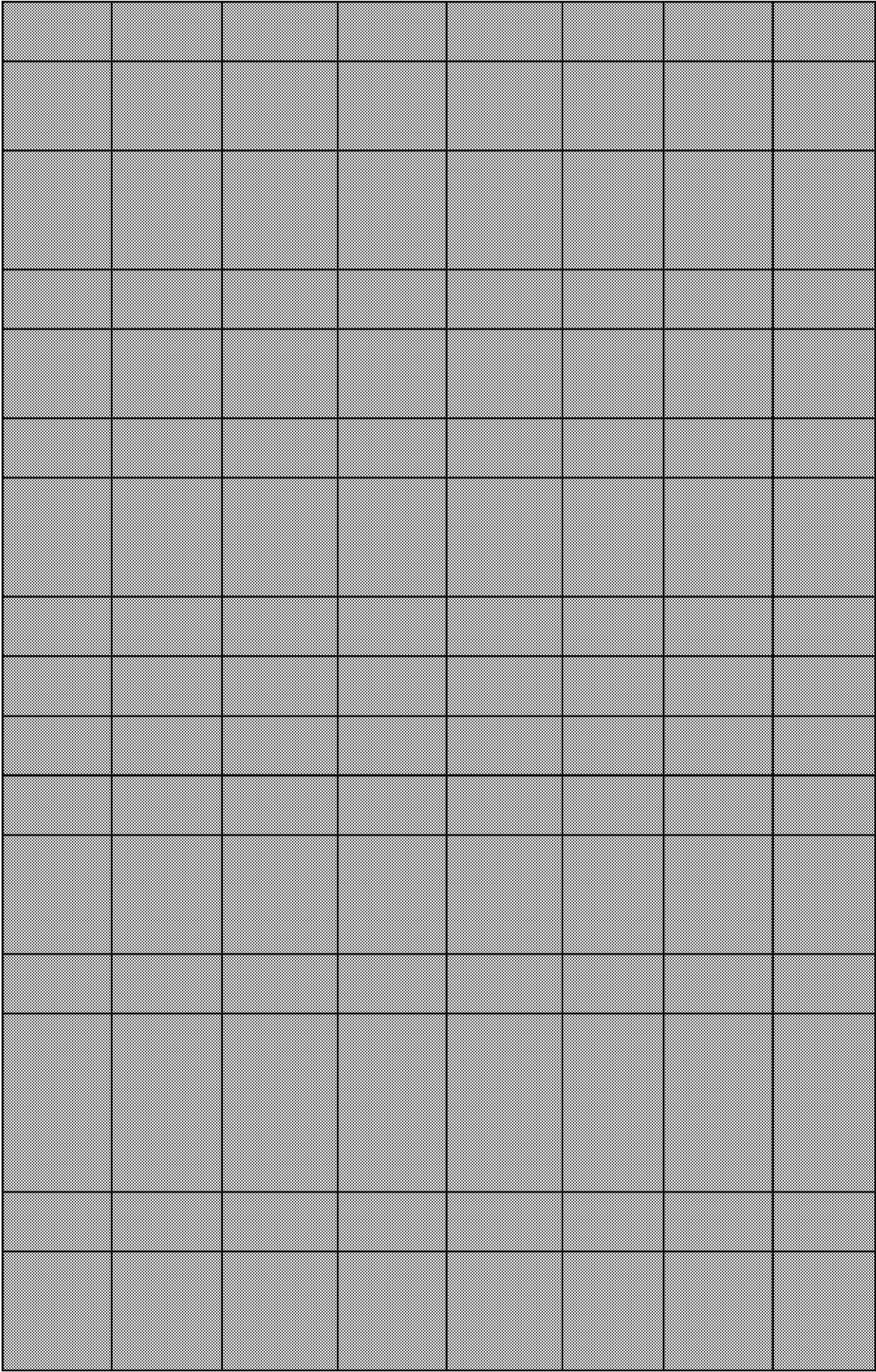
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DESCRIPTION (provided by applicant): Many drugs (e.g. biguanide antihyperglycemics, histamine H2 receptor blockers, p
The auxin herbicide quinclorac is widely used for controlling weeds in transplanted and direct-seeded rice fields. However
Biosis copyright: biol abs. rrm meeting abstract meeting poster drosophila larva molecular genetics neuroscience shaker
As an essential enzyme in the sulfate assimilation reductive pathway, sulfite reductase (SiR) plays important roles in dive
In the Klebsiella pneumoniae CG43 genome, the divergently transcribed genes coding for PecS, the MarR-type transcript
Objective: To study paraquat distribution in acute toxicant rats tissue by HPLC. Methods: Male Wister rats were given 20
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Heep copyright: biol abs. herbicides phenyl ureas insecticides cyclo dienes ddt dieldrin photosynthesis metabolism
The objective of this work is to elucidate further the mechanisms involved in oxygen toxicity of the newborn and its prev
The objective of this work is to elucidate further the mechanisms involved in oxygen toxicity of the newborn and its prev
The objective of this work is to elucidate further the mechanisms involved in oxygen toxicity of the newborn and its prev
Rationale: Vasohibin-1 (VASH1) is a VEGF-inducible endothelium-produced angiogenesis inhibitor. Recently, we found th
OXIDATIVE STRESS; GENES; DISEASE MODELS ANIMALOBJECTIVES: Our laboratory is interested in characterizing the chan
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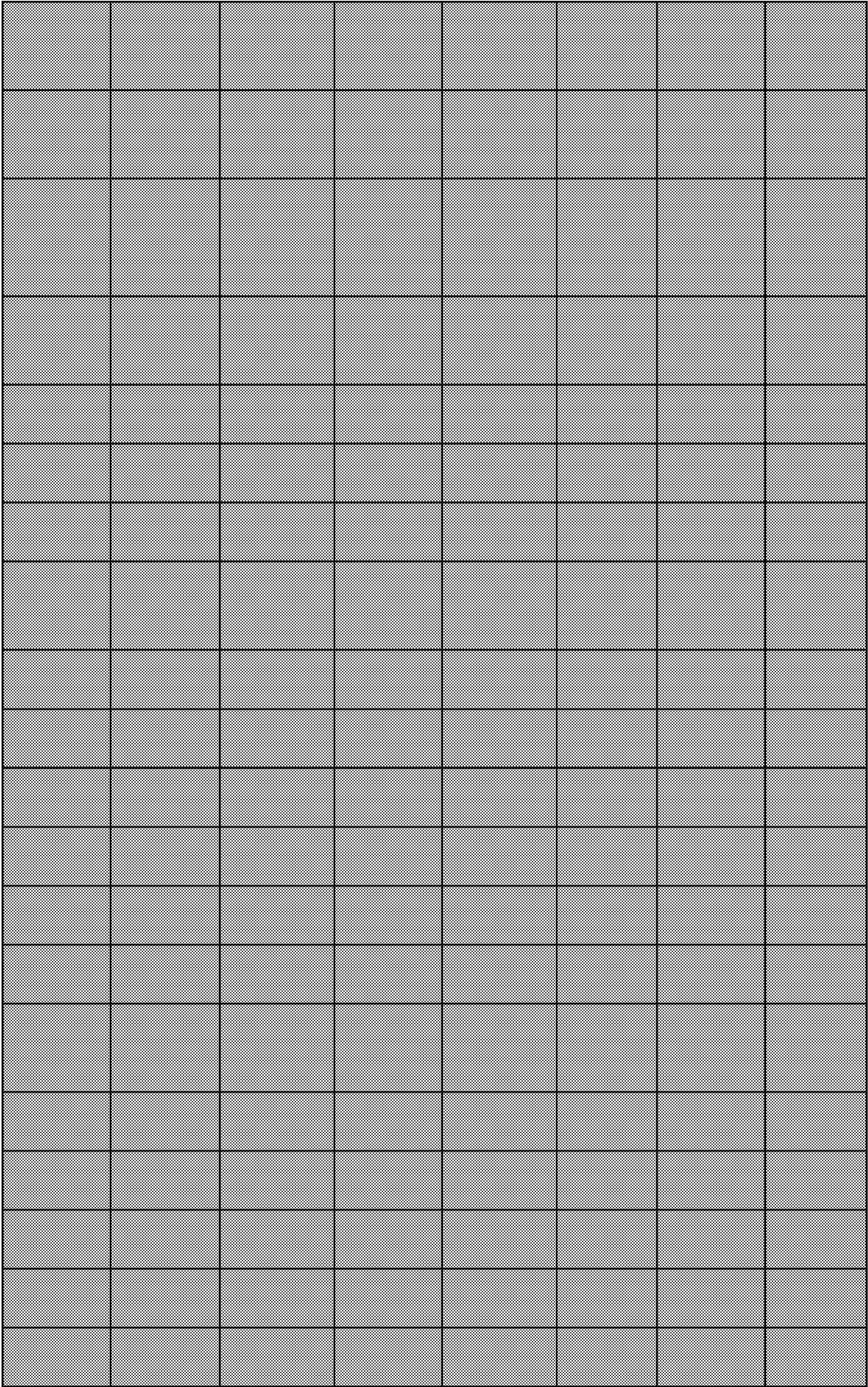
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Background: Telomeres and telomere-associated proteins are key factors in aging processes and affect cellular senescence
Potential dangers associated with dermal absorption of paraquat (4685147) and doses needed to produce a fatal outcome
BIOSIS COPYRIGHT: BIOL ABS. Treatment of young spruces with the herbicides aminotriazole and paraquat leads to oxidative damage
The cytosolic protein c-FLIP (cellular Fas-associated death domain-like interleukin 1 β -converting enzyme inhibitory protein)
Heep copyright: biol abs. aquatic organism
Cockayne Syndrome (CS) is an autosomal recessive disorder, characterized by growth failure, neurological abnormalities, and
Cockayne Syndrome (CS) is an autosomal recessive disorder, characterized by growth failure, neurological abnormalities, and
Biosis copyright: biol abs. rrm human animal smoking air pollution
5 cases are reported, of which 3 were occupational accidents, in Papua New Guinea men. All had marked blistering and edema
DESCRIPTION (provided by applicant): Mutations in LRRK2 are a common genetic cause of Parkinson's disease (PD). Disease
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Sexual dimorphism accounts for the physical and reproductive differences between the sexes that are conserved across species
This subproject is one of many research subprojects utilizing the resources provided by a Center grant funded by NIH/NCI
While the ambiguity of suicidal patients' stated motivations has been studied in some detail, less attention has been given to
The mechanism(s) by which paraquat (1, 1'-dimethyl-4,4'-bipyridinium), a divalent organic cation (OC) and proximal tubule
Objective: Glyphosate, a commonly used herbicide worldwide, is thought to be of low toxicity to humans. However, severe
Selenoprotein H (SelH) is a nuclear selenoprotein known to play dual roles in redox maintenance and transcriptional activation

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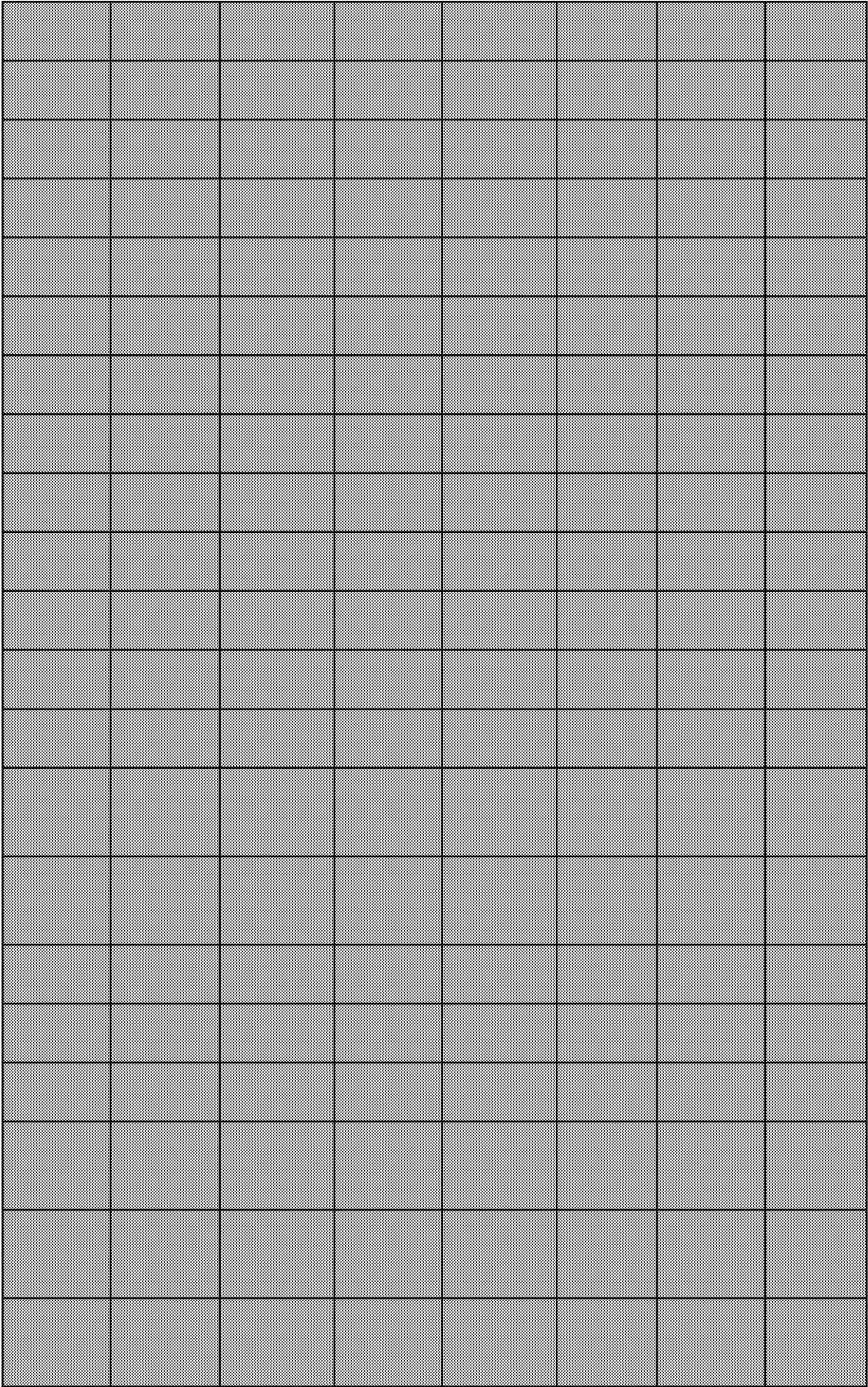
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D. Y. Ma N. N. Zhuang K. Y. Zhu S. B. Liu Z. M. Yang X. H. Yang. Overexpression of tomato SIGGP-LIKE gene improves tobacco tolerance to methyl viologen-mediated oxidative stress. Journal of Plant Physiology. 2017. 209:31-41
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Selenoprotein H (SelH), a newly identified selenoprotein, is a nuclear protein known to protect cancer and neuronal cells
Biosis copyright: biol abs. rrm meeting abstract herbicide reduced glutathione glutathione s-transferase manganese-superoxide dismutase
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Project AbstractParkinson disease (PD) is caused by progressive and substantial loss of dopaminergic neurons in the midbrain and substantia nigra
[unreadable] DESCRIPTION (provided by applicant): Although the etiology of Parkinson's disease (PD) has not been defined, epidemiological studies have shown that the incidence of PD increases with age
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Melatonin, the chief secretory product of the pineal gland, was recently found to be a free radical scavenger and antioxidant
Toxic epidermal necrolysis (TEN) is a life-threatening, typically drug-induced, mucocutaneous disease. Whether paraquat is a causative agent in TEN remains unclear
Biosis copyright: biol abs. rrm meeting abstract meeting poster bacteria yeast paraquat 4-nitroquinoline oxide 1-nitronaphthalene
PESTAB. Clinical aspects of a suicide by a 31-year-old man by the swallowing of a small cupful of paraquat dichloride (24% solution)
Ascorbate (AsA) is an important antioxidant that can scavenge reactive oxygen species to protect plant cells against oxidative damage
Ascorbate (AsA) is very important in scavenging reactive oxygen species in plants. AsA can reduce photoinhibition by xanthophyll cycle
Biosis copyright: biol abs. rrm abstract rat pc12 cell line 1 methyl-4-phenyl-1,2,3,6-tetrahydropyridine paraquat dopaminergic neurons
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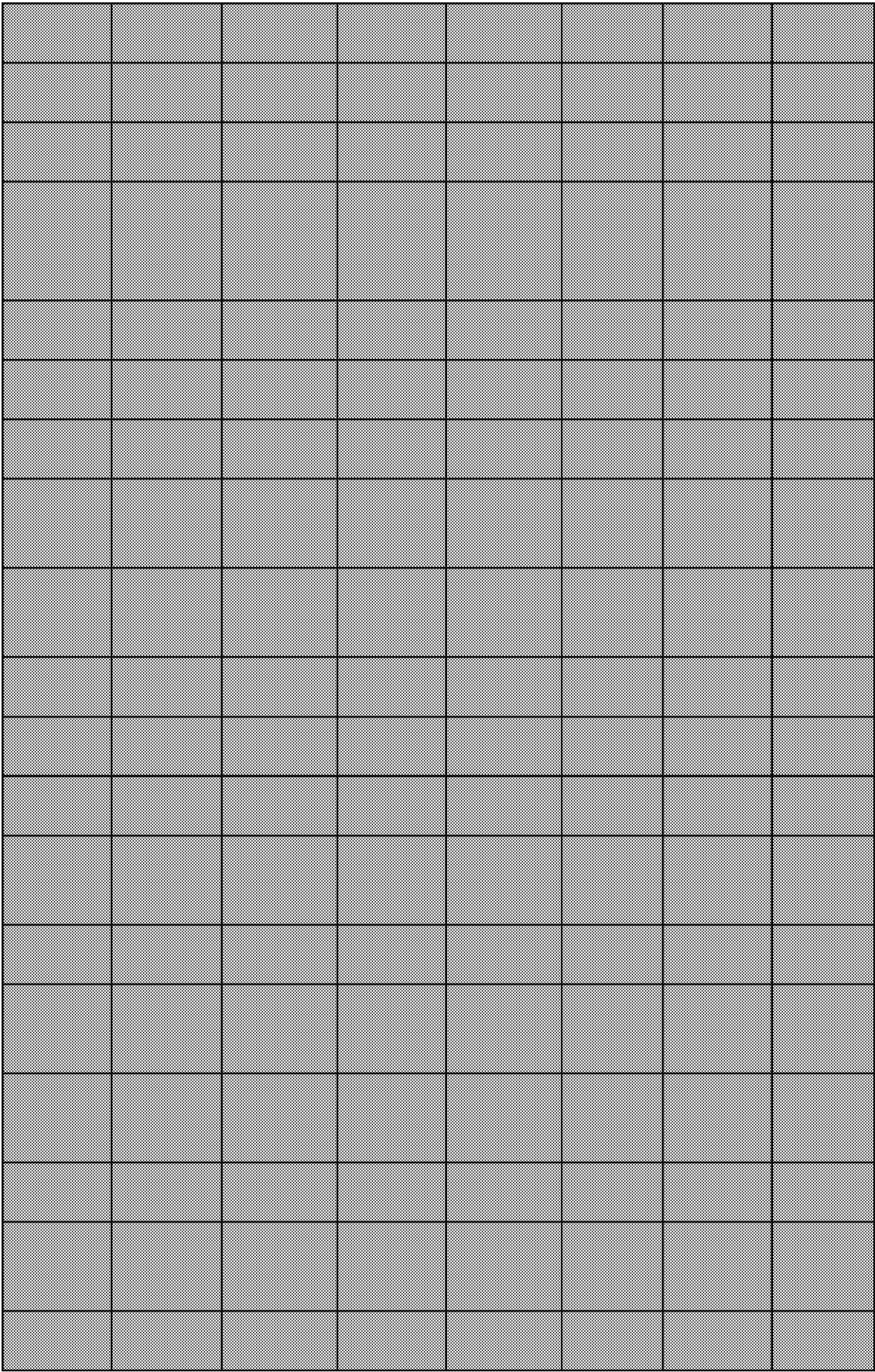
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Introduction: Adiponectin is an adipose tissue-derived hormone that exhibits antioxiogative and antiinflammatory effects
Pulmonary fibrosis (PF) is the most common complication of paraquat (PQ) toxicity, which lacks an effective treatment. T
In the presence of a water-soluble pillar[6]arene WP6 containing 12 imidazolium groups, silver nanopartides were succes
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Objective: To examine whether paraquat (PQ), a well-known reactive oxygen species (ROS) producer, could induce epithel
Reactive oxygen species (ROS) are recognized as important regulators of cell division and differentiation. The Arabidopsis
Antioxidant defense systems are a prominent element in plant responses to environment stresses. Many conditions such
Increased oxidative stress and inflammatory responses are common effects of exposure to environmental agents. There
Increased oxidative stress and inflammatory responses are common effects of exposure to environmental agents. There
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IPA COPYRIGHT: ASHP Preliminary experiments reveal that respiration deficiency can be permanently and quantitatively
Objective: To report on three patients with paraquat (PQ) intoxication surviving after combined therapy with hemoperfu
Objective: The purpose of this study was to explore the role and mechanism of human neuromelanin, (HNM), an endoge
Prolonged exposure to hyperoxia generates excessive reactive oxygen species (ROS) and potentially oxidant injury in eve
Methionine residue in proteins is highly sensitive to reactive oxygen species resulting in formation of either R- or S- form
Paraquat (PQ) is a non-selective contact herbicide, and acute PQ poisoning has a high mortality. The aim of the present s

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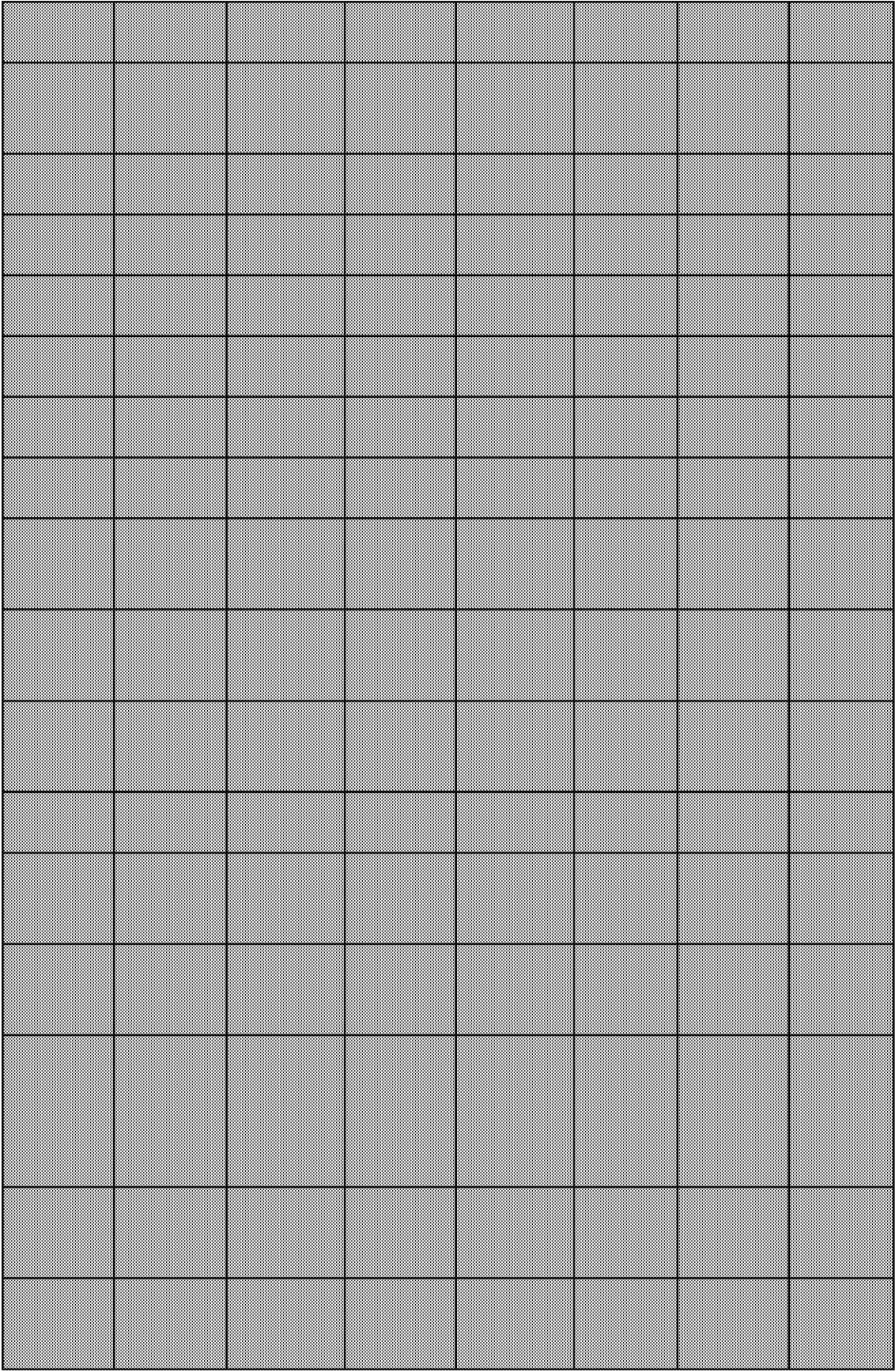
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Objective: To study the effect of the extract from Chinese materia medica (CMM) on oxidative stress-induced gut immun
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Objective: The correct management of some poisoned patients may require admission to the Intensive Care Unit (ICU). V
Objective: The use of the Intensive Care Unit (ICU) in acute poisonings is a challenging medical problem: the poisoned pa
BIOSIS COPYRIGHT: BIOL ABS. The etiology of nigrostriatal pathway degeneration in Parkinson's disease (PD) is unknown
The sorption-desorption of the cationic pesticide 1,1'-dimethyl-4,4'-bipyridinium dichloride (paraquat) on a bentonite fro
This paper will deal with the electronic and physical effects of purification of a macrocyclic dye, 2,3-naphthalocyanine bis(t
We report the syntheses of 2,2'-bipyridine-4,4'-disulphonic acid (H2bp-4,4'-ds) and 2,2'-bipyridine-5-sulphonic acid (Hbp-
The ozonation of 1,1' dimethyl, 4,4' bipyridinium dichloride (paraquat) in aqueous solution was investigated at varying ph
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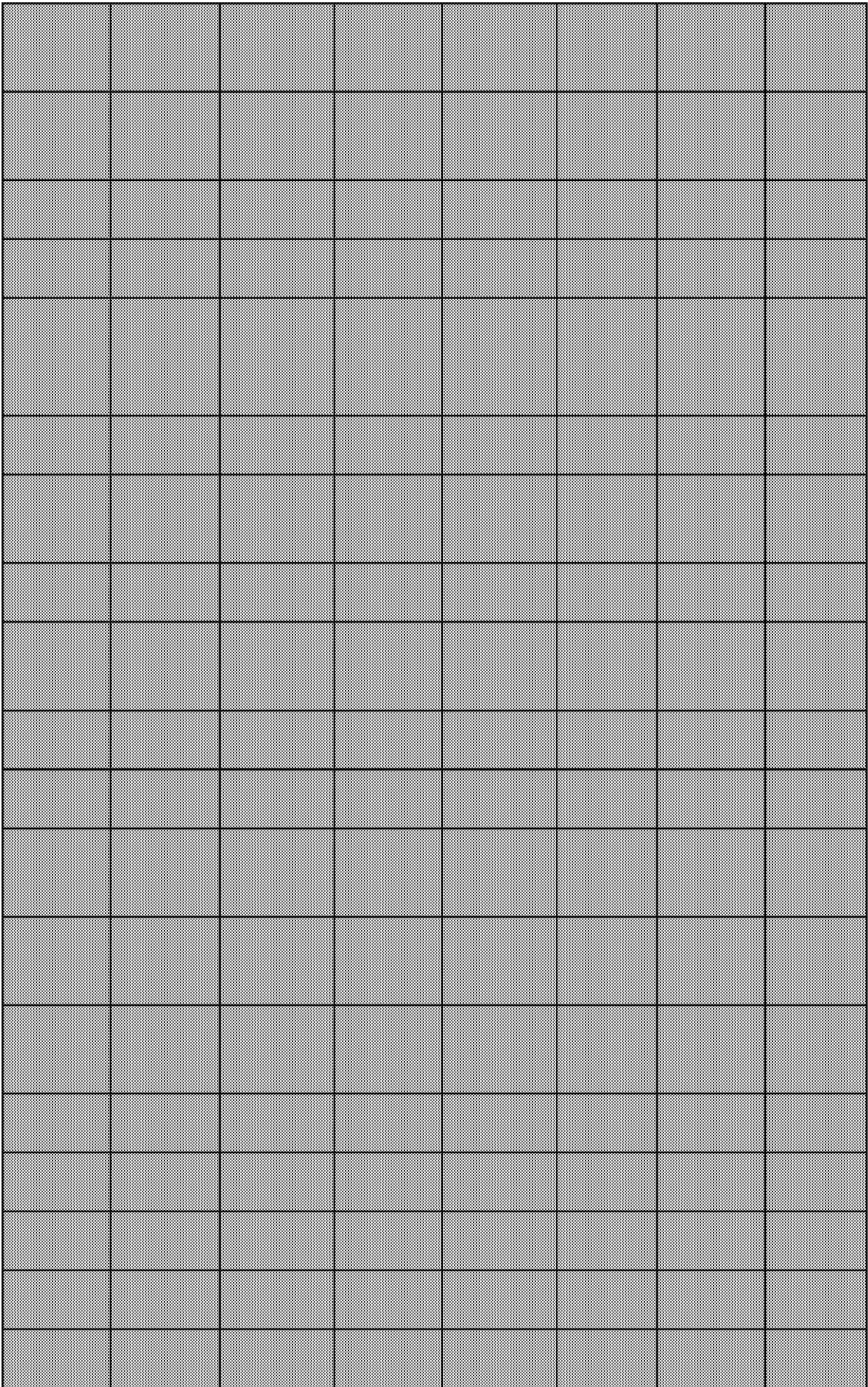
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The oxidation of methyl viologen, 1,1'-dimethyl-4,4'-bipyridylium chloride (MV ²⁺), in aqueous solution has been carried
Although paraquat is one of the world's most widely used herbicides few physicians have ever had the occasion to treat
At room temperature, tris(1,1'-dimethyl-4,4'-bipyridinium) bis(hexachlorobismuthate(3-)) dihydrate, [C ₁₂ H ₁₄ N ₂] ₃ [BiCl ₆] ₂
Recent advances in fuel cell (FC) and microbial fuel cell (MFC) research have demonstrated these electrochemical technol
Electron transfer reactions in Photosystem I (PS I) were investigated by flash-absorption spectroscopy under highly reduc
We produced an anti-paraquat single chain antibody (scFv) to investigate its potential use in immunotherapy for paraquat
In this study the pH-dependent interactions between a paraquat-specific murine monoclonal antibody and t
A rationally designed 2,3,10,11-tetrahydroxytetraphenylene (1) has been synthesized. Employing 1 as a building block, a
Two workers who handled an agrotoxic product, the paraquat dichloride 1,1'-dimethyl-4,4'-bipyridinium dichloride (Gran
Producing an effective antidote against poisoning by the herbicide paraquat (PQ) has proven to be an elusive goal. One a
The gas chromatographic (GC) determination of the herbicide paraquat, the 1,1'-dimethyl-4,4'-dipyridyl cation in human
The effects of exposure to low doses of paraquat a herbicide, via the dermal route were studied on the spermatozoa of S
In an effort to obtain better understanding of the problems of generating H ₂ in photochemical systems, the interaction b
The photochemistry of MV ²⁺ (Cl ⁻) ₂ (methyl viologen; paraquat; 1,1'-dimethyl-4,4'-bipyridinium dichloride) has been inve
Methyl viologen (paraquat; 1,1'-dimethyl-4,4'-dipyridinium dichloride; MV ²⁺ (Cl ⁻) ₂) has been of great interest not only fo
Simultaneous adsorption of quaternary ammonium surfactants (mono-, di- and tri-) and 1,1'-dimethyl-4,4'-bipyridinium c
As a means of solar energy conversion, we are interested in the photosensitized decomposition of water with pigmented
Methylviologen (1,1'-dimethyl-4,4'-bipyridinium dichloride, MV ²⁺ , 1) and a newly synthesized viologen derivative (1-met

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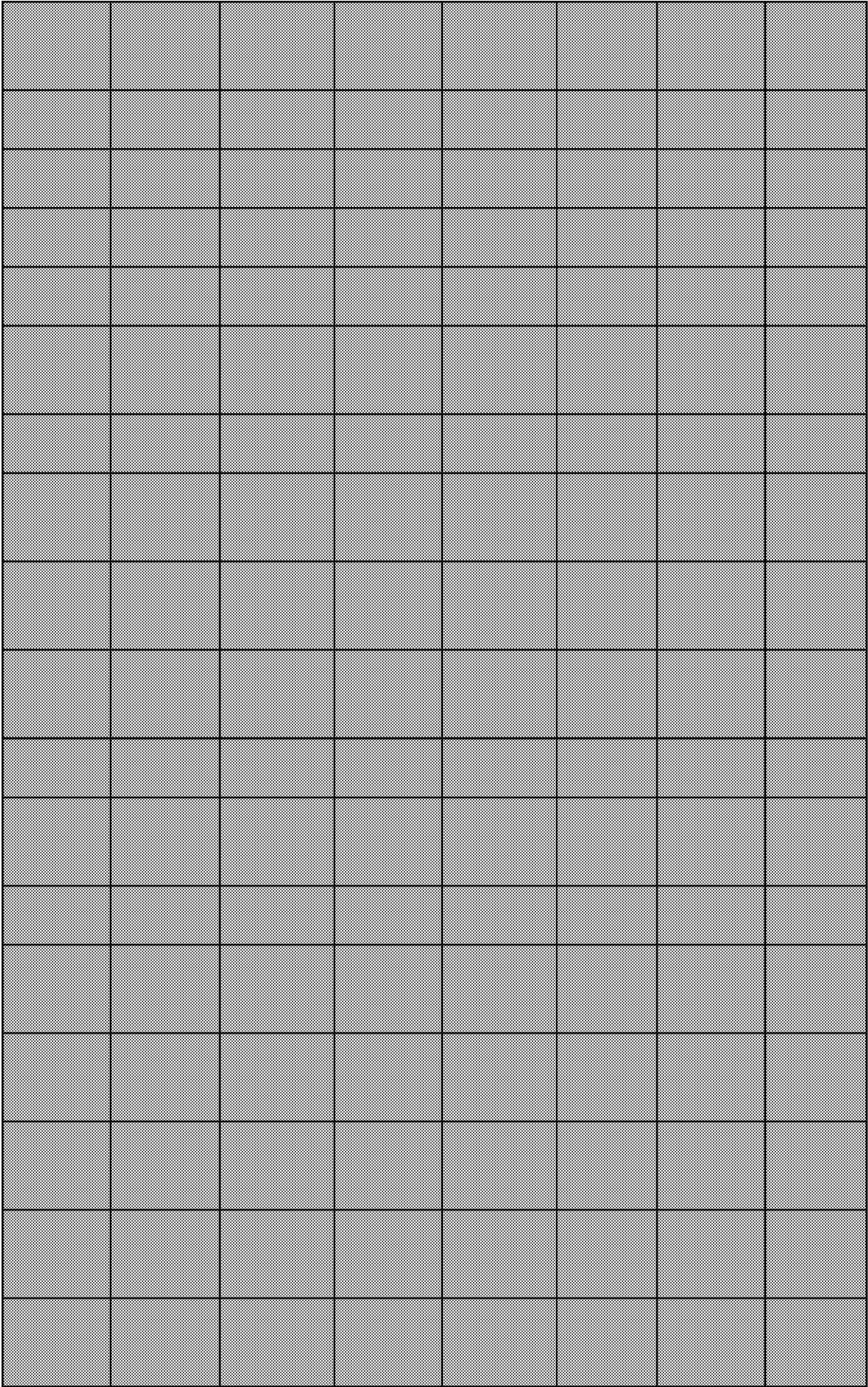
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Both intensity and lifetime measurements have been used to study the quenching of luminescence of several ruthenium
Pesticides may alter nutrient cycling in a salt marsh by affecting various nontarget microorganisms, including denitrifiers
The flow-injection determination of Paraquat (1,1'-dimethyl-4,4'-bipyridinium) is based on its reduction with sodium dith
The hybridization of two different types of organic poly cations, 1,1'-dimethyl-4,4'-bipyridinium dications (methyl violog
The approach of utilizing an electrochemically generated titrant to transfer charge to an electron carrier enzyme has bee
Beginning the day after hatching, American kestrel (<i>Falco sparverius</i>) nestlings were orally dosed daily for 10 days with 5
The effect 1,1'-dimethyl-4,4'-bipyridinium dichloride (paraquat) has on wheat residue decomposition was investigated in l
A charge-transfer (CT) complex, composed of rac-3,3'-dibromo-1,1'-bi-2-naphthol as the electron donor and 1,1'-dimethy
A charge-transfer (CT) complex composed of rac-3,3'-dibromo-1,1'-bi-2-naphthol as an electron donor and 1,1'-dimethyl-4
The photooxidation of the aryl-substituted cycloheptatrienes 7-(p-methoxyphenyl)cycloheptatriene (1a), 7-, 1- and 3-(p-c
In situ synthesis of fine thallium and cadmium particles has been carried out by γ -irradiation at room temperature in a pr
In an aqueous dimethyl sulfoxide (DMSO) solution of triethanolamine (TEOA), the photosensitizer of the title complex (1)
Paraquat (1,1' dimethyl 4,4' bipyridinium dichloride) and linuron [3 (3,4 dichlorophenyl) 1 methoxy 1 methylurea] were a
A new layered compound, [MV][{Mn(CH ₃ OH) ₂ }{Re ₆ Se ₈ (CN) ₆ }] (1) consists of a layer alternately knitted by hexarhenium
A chiral charge-transfer (CT) complex was formed using achiral 9,10-bis(3,5-dihydroxyphenyl)anthracene (BDHA) as an el
A novel charge-transfer (CT) host system with a 1D column-like structure is developed. This 1D column-like structure is fo
C 60-photosensitized reduction system of methyl viologen (1,1'-dimethyl-4,4'-bipyridinium) electron-mediated by O ₂ in
The purpose of this project was to evaluate the biodegradation of two commercial herbicides (Gramoxone and Matancha

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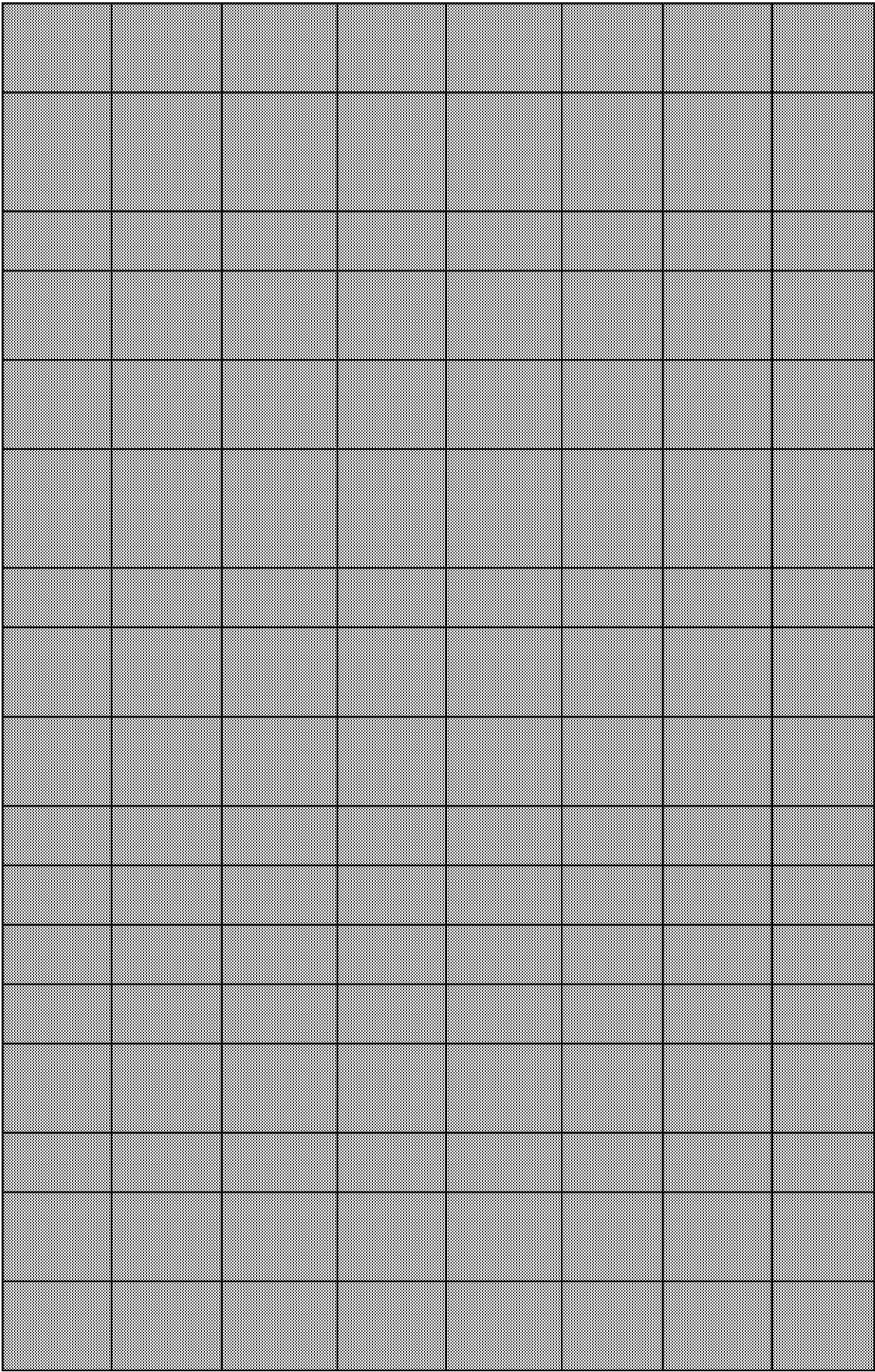
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Paraquat commonly used as weedicide is chemically known as 1, 1'-dimethyl-4, 4'-dipyridylium is associated with both a
Two intramolecular electron-transfer steps have been identified in pulse-radiolysis studies on the multicopper enzyme a
Desiccant effectiveness in hastening sunflower (<i>Helianthus annuus</i> L.) harvest is based on research conducted for conver
An iodoargentate hybrid coordination polymer induced by MV ²⁺ , [MV(Ag ₂ I ₄)] _n (1) (MV = methyl viologen, i.e., 1,1-dime
Two new methyl viologen halocadmium charge-transfer salts with isostructures, [(MV)(CdI ₄)] ₂ ·3H ₂ O and [(MV)(CdBr ₄)] ₂ ·3H ₂ O
In the present work, methyl viologen (1,1'-dimethyl-4,4'-bipyridinium dichloride) is used as a scavenger to estimate the r
Changes in agricultural practice may alter agrichemical effects on nontarget wild-life. Because of routine practice in vario
A charge-transfer (CT) complex, composed of 10,10'-dihydroxy-9, 9'-biphenanthryl as the electron donor and 1,1'-dimeth
Reduced graphene oxide (RGO) is modified with 1,1'-dimethyl-4,4'-bipyridinium dichloride (methyl viologen, i.e. MV) by
The presence of organic pesticides in aquatic systems has been reported for more than 40 yr. Various methods, such as s
Paraquat (1,1' dimethyl-4,4' bipyridilium) is the more important weedkiller among the group of bipyridilium compounds
The photocatalytic degradation of pure paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) aqueous solutions with UV
The highest reduction product of 1,1'-dimethyl-4,4'-bipyridinium dichloride (methyl viologen dichloride, MVCl ₂), methyl
Standard heterogeneous electron transfer rate constant k ^o a for some important pyridinium model compounds: N-methyl
Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) was used as an intracellular generator of oxygen free radicals and v
Aqueous 7-d germination and growth experiments were performed to compare responses of <i>T. latifolia</i> to exposures of a
The apparent redox response of Prussian blue (PB, iron(III) hexacyanoferrate(II)) within a paper matrix is similar to that fo

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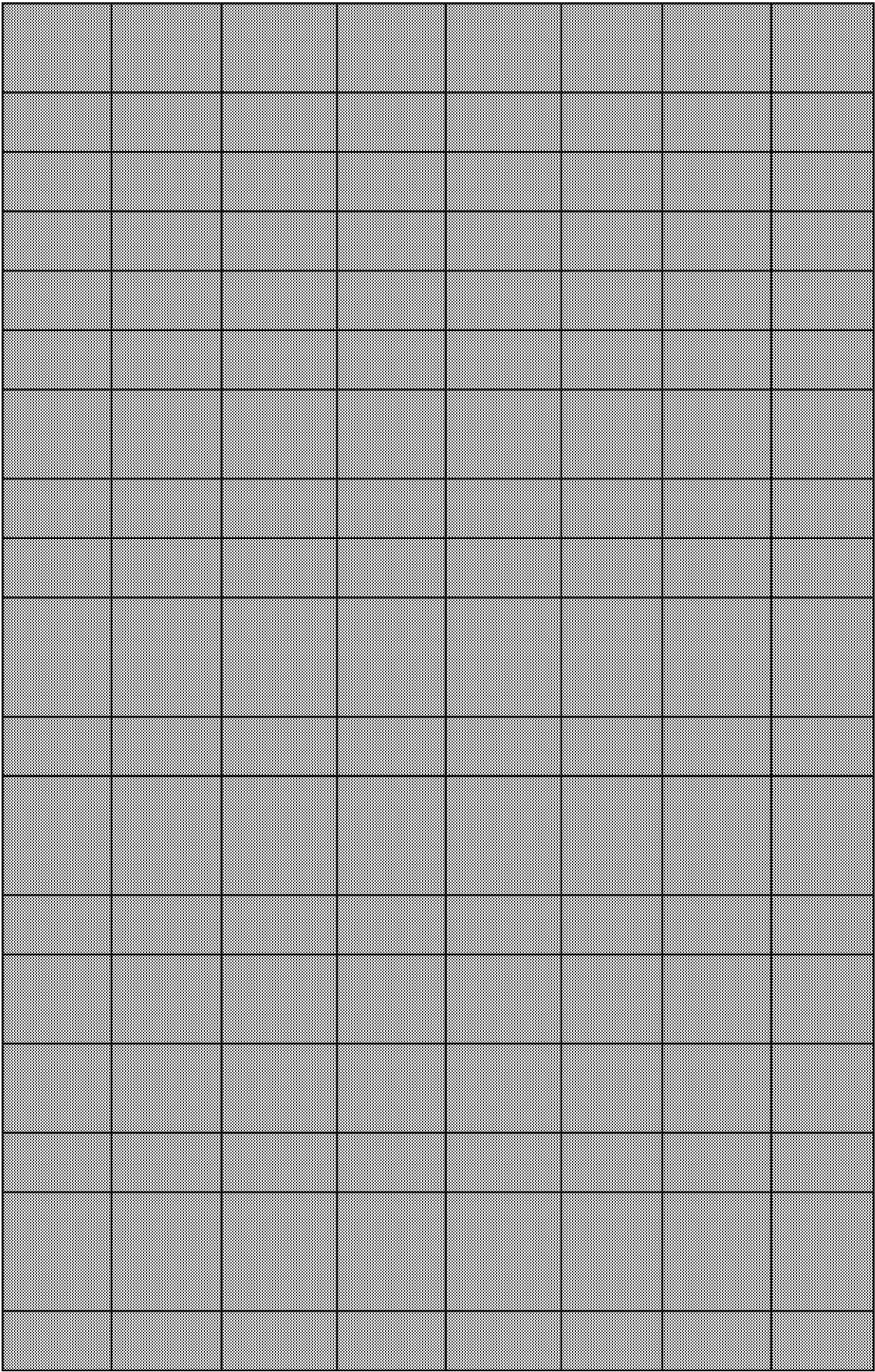
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Microcolumn ion chromatography of inorganic monovalent and divalent cations has been investigated by using 1,1'-dimethyl-4,4'-bipyridinium dichloride (PQ2+).
The Rhizobium-legume interactions have been reported to be very specific in nature. One of the major factors contributing to the specificity is the recognition of the host plant by the rhizobium.
Since 1962, Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) has been promoted as a weed killer under the trade name Gramoxone.
By means of liver slice culture, the suppressive effect of Xiao-Chai-Hu-Tang on hepatic injury due to paraquat (PQ2+, 1,1'-dimethyl-4,4'-bipyridinium dichloride) was investigated.
Striking cutaneous lesions and death owing to respiratory failure occurred in a middle-aged woman eight weeks after initiation of treatment with paraquat.
Iron-containing hectorite-like layered silicate was synthesized by the reaction of LiF, Mg(OH)2, colloidal silica, and FeCl3.
Contamination of soil with pesticides can be evaluated using toxicity tests with worms because their ecological niche makes them sensitive to soil contamination.
Context: Paraquat (PQ; 1,1'-dimethyl-4,4'-bipyridinium dichloride) is highly toxic and accounts for a large proportion of the deaths caused by pesticides.
Successful use of Paraquat (1,1'-dimethyl-4,4'-dipyridylium dichloride, produced by Plant Protection Ltd under the trade name Gramoxone) for the control of weeds in the field.
Infrared and Raman spectra (1800-200 cm ⁻¹) of methyl viologen (1,1'-dimethyl-4,4'-bipyridyl dication or MV2+) ([1H<inf>NMR spectra of MV2+ in DMSO-d6 and in DMSO-d6/H2O mixtures].
Nitrate reductase (EC 1.6.6.1) from Chlorella vulgaris, a flavin-cytochrome-molybdenum enzyme, catalyses two types of reactions: nitrate reduction to nitrite and nitrite reduction to ammonium.
Several environmental stresses generate high amounts of reactive oxygen species (ROS) in plant cells, resulting in oxidative damage to cellular components.
The exchange complex produced by paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) and Llano vermiculite formed a stable complex with the paraquat cation.
The trichloroacetic acid (TCA) based reagent proposed by Jenkinson and Oades (1979) fits all the criteria required to measure the soil microbial biomass.
The application of mediated electrochemical redox titrations employing spectroelectrochemical techniques to the study of the reduction of methyl viologen.
TiO2/polymer films on quartz substrate were fabricated by layer-by-layer method and the ultrathin films showed photocatalytic activity.
Photocatalytic reduction of methyl viologen (1,1'-dimethyl-4,4'-bipyridinium mv2+) was efficiently carried out with copper(II) ions as electron mediators.
The pulse radiolysis of FA and FA:water solutions was studied in the absence and presence of redox indicator 1,1'-dimethyl-4,4'-bipyridinium dichloride.

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Poly vinyl phosphonic acid (p(VPA)) hydrogel nanoparticles (nanogels) were prepared using VPA as monomer via microemulsion
A sensitive procedure for the determination of nitrate based upon the enzymatic reduction of nitrate to nitrite is described
Enoate reductase (EC 1.3.1.31) from a <i>Clostridium tyrobutyricum</i> strain catalyses the stereospecific reduction of many diastereoisomers of enoates
The effects of paraquat (1,1'-dimethyl-4,4'-dipyridylium dichloride or Gramoxone) and diquat (1,1'-ethylene-2,2'-dipyridylium dichloride) on the growth of <i>Brassica napus</i> L. were studied
Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) is commonly used to kill endophyte-infected stands of tall fescue (<i>Festuca arvensis</i> L.)
Pesticide waste and rinsate (PWR) obtained from a small farm was treated on site with ozone (18 h) and then circulated through a series of filters
The indeterminate growth of cotton (<i>Gossypium hirsutum</i> L.) often results in a boll population at various stages of maturity
Aqueous solutions of anionic surfactants Cl(C ₃ F ₆ O) _n CF ₂ COOX, consisting of n = 2 and 3 perfluoroisopropoxy units and the corresponding sodium salts
Background and objectives: 1,1'-Dimethyl-4,4'-bipyridinium dichloride (Paraquat) poisoning remains a significant global health problem
A new colorimetric method has been developed for the determination of trace amounts of oxygen in gases by the in situ generation of a colored complex
Application of fluorescence methods to study micellar solutions of perfluorinated surfactants is very scarce because good fluorescent probes are not available
Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) is extensively used as a herbicide and the resulting water contamination is a serious problem
Gramoxone is the most widely used non selective herbicide. It contains at least 24% paraquat (1,1'-dimethyl 4,4'-dipyridylium dichloride)
The pore structure of zeolite Y consists of 13 Å supercages connected through 7 Å windows. This study deals with the interaction of paraquat with zeolite Y
The study was conducted in 1999 at Quincy, FL to evaluate benefits of Roundup Ready compared with conventional weed control
The bacterial strain JW-2 which conferred resistance against paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) was isolated from a soil sample
Cyclic voltammetry was recorded in an aqueous solution of 1,1'-dimethyl-4,4'-bipyridinium dichloride ("methylviologen")
Two spatially different nano-structured inorganic materials, titania nanosheets (TNS) and mesoporous silica (MPS), were synthesized

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